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BALTIMORE, JANUARY 26, 1911.

NEEDED CONSERVATION.

Isn't it about time for a conservation of political activities for about a year at least? Some folks don't seem to think that other folks get tired.

WORLD'S PANAMA EXPOSITION.

In reply to a telegram from the MANUFACTURERS RECORD of congratulations upon the vote of the House committee on industrial arts and expositions in favor of New Orleans as the site for the World's Exposition in 1915 in celebration of the completion of the Panama Canal, the World's Panama Exposition Co. at New Orleans telegraphed:

Congratulations highly appreciated. Good work must continue for ultimate success.

The report of the congressional committee was made after the advocates of both San Francisco and New Orleans had presented the strongest claims possible in behalf of their respective communities, with every opportunity for the claims to be considered in all their bearings. The determination of the committee in favor of New Orleans, based upon such a searching inquiry, will undoubtedly have great weight with Congress as a whole and with the public. But it is nevertheless a fact that persistent, stiff work is necessary in order to assure action in the House of Representatives and in the Senate, giving endorsement at this session of Congress to New Orleans as the site for the exposition. Between the two Houses of Congress and among the divers measures that will occupy that body during the five weeks still remaining of the session there will be many opportunities for the important New Orleans measure

to be temporarily shelved or to be hung up indefinitely through disagreement of the two branches. It, therefore, behooves everyone who wishes the exposition to be held at the logical point for such a world function to keep on the alert against obstacles and to be active in keeping the New Orleans measure to the front. Good work must continue for ultimate success.

THE CANAL AND THE MERCHANT MARINE.

In calling to order the National Merchant Marine Congress at Washington, President John Kirby, Jr., of the National Association of Manufacturers said that the manufacturers of the country are practically a unit in demanding legislation for the upbuilding of the merchant marine, facilitating the expansion of markets in foreign lands for the manufactured products of the United States, and providing mail ships flying American flags as links in the great chain of activities, keeping American factory wheels moving.

These words are likely to attract renewed attention to the lamentable condition of the American merchant marine, emphasized as the time for the completion of the Panama Canal becomes more definitely known and as that record-breaking undertaking comes more and more into every-day commercial calculations. The various bills in Congress, inspired by a desire to have something accomplished in the way of a restoration to the seas of an American merchant marine by the time the canal is opened, and the meeting of the National Merchant Marine Congress this week, all emphasize the fact that there is a universal desire to "do something" for the rehabilitation of our shipping to the end that this country may realize a fair share of benefit from the canal which we are presenting for the use of all nations. Whatever ways and means may be devised to bring this desired result about, it is apparent that the South is vitally interested, in a commercial as well as patriotic way, and a casual examination of the distance map of this continent will plainly show the geographical advantage of location of the various important harbors relative to all Central America and west coast of South America points.

The Panama Canal lies in almost a direct course of 1380 miles from New Orleans, Mobile and Pensacola, and about the same distance from Jacksonville in a less direct route, and is still nearer to Tampa and Key West, while from San Francisco to the canal is 3280 miles. The west coast of South America, instead of lying in the longitude of the west coast of the United States, is in the longitude of our east coast, so that our Gulf and other Southern ports have an advantage in distance as regards longitude as well as latitude.

It is a fundamental principle of transportation that between any two points the advantage lies with the amount of "water haul" as compared with "rail

haul," so that a long water haul and short rail haul is desirable; but in the case of our Southern ports in Panama Canal traffic they will have the still greater advantage of both a short water haul and a short rail haul from a large part of the producing field, where the freight will originate and to which the return cargoes will be delivered.

The immense inspiration of the Panama Canal may and should prove to be the impelling force to a solution of our vexed merchant-marine question.

THE TEXAS SPIRIT.

Texas does things on a big scale. We called attention in our last week's issue to an estimated \$25,000,000 to be spent upon highway improvements in the State this year. On January 10 the citizens of Houston and Harris county approved of bond issues aggregating \$1,750,000 to pay for a \$500,000 viaduct to connect the two business districts lying on each side of the ship channel, and for the completion of that ship channel at a cost of \$2,500,000, of which \$1,250,000 are available under an appropriation by Congress. On January 13 Fort Worth voted for \$2,000,000 in bonds for public improvements and extensions of water-works and streets. This Texan spirit accounts for the notable growth of population in that State, which has brought it, between 1890 and 1910, from seventh in rank as to population among the States of the country to fifth place, and for an increase in population between 1880 and 1910 at the rate of 171.1 per cent. at Austin, 789.1 per cent. at Dallas, 5263.9 per cent. at El Paso, 1000.3 per cent. at Fort Worth, 66.2 per cent. at Galveston, in spite of the disaster of ten years ago, 377.2 per cent. at Houston, 370 per cent. at San Antonio and 262.2 per cent. at Waco, among cities now having more than 25,000 inhabitants and for equally notable growth among many of the smaller cities of the State, together with a healthy rural development. Since 1890 the railroad mileage of Texas has increased from 8710 to 15,070, and railroad construction opening up vast tracts of fertile land and giving cities quick connections with the markets of the country has been largely responsible for the development of Texas, but that could not possibly have attained its present proportions had it not been for the spirit manifested in the bond issues mentioned.

PORTLAND CEMENT.

One of the most notable growths in the history of American industry is that of the manufacture of Portland cement. Twenty years ago less than 400,000 barrels were made annually, and the industry had a comparatively small growth until 1896, when its annual output was 1,543,000 barrels. In five years the output rose to 12,711,225 barrels in 1901 and in three more years to 26,505,881 barrels in 1904. By 1909 the output reached 63,508,471 barrels, and last

year, according to the United States Geological Survey, there was an increase of from 15 to 20 per cent. in production over 1909, with the output between 73,500,000 barrels and 75,000,000 barrels.

Expansion in this industry is a consequence of the increase in the use of cement in reinforced-concrete construction and in divers other lines. In 1909, upon buildings of concrete construction in 49 cities of the country, more than \$30,000,000 were spent, whereas that character of construction had just begun to be considered 15 or 16 years before. The \$30,000,000 was, of course, not the total spent upon concrete construction in the cities of the country, and that sum did not include the amounts spent upon viaducts, bridges, etc. The value of the annual output of Portland cement is now between \$50,000,000 and \$75,000,000, and it is fair to estimate that the money represented in concrete construction of various kinds is but little short of the value represented in the cement output.

INCREASING VALUE OF FARMS.

Returns at this writing of farm land values in 1910 in twelve States in which the aggregate value in 1900 represented nearly 39 per cent. of the total value in Continental United States in that year suggest some discussion of interesting possibilities as to the total showing for the whole country and for the South in 1910. Comparison of the twelve States in 1900 and 1910 is made in the following table:

Value of Farms and Buildings.			
States.	1900.	1910.	P.C.
Connecticut.....	\$97,425,000	\$136,621,000	40.
Delaware.....	34,436,000	52,926,000	54.
Illinois.....	1,765,582,000	3,511,194,000	99.
Indiana.....	841,735,000	1,590,225,000	89.
Iowa.....	1,497,535,000	3,253,719,000	117.3
Maine.....	96,502,000	158,676,000	64.
Michigan.....	582,518,000	897,667,000	54.
Minnesota.....	609,322,000	1,259,510,000	88.
New Hampshire.....	70,124,000	85,542,000	22.
Rhode Island.....	23,125,000	27,456,000	19.
Vermont.....	83,072,000	112,327,000	35.
Wisconsin.....	686,148,000	1,179,558,000	72.
Total.....	\$6,447,744,000	\$12,264,811,000	90.

In these twelve States are included Illinois, which in 1900 ranked first among the States of the country in the value of land and improvements, \$1,765,582,000, and second in the gross value of agricultural products, \$345,650,000; Iowa, which ranked second in the value of land and improvements, \$1,497,535,000, and first in gross value of agricultural products, \$365,412,000; Vermont, which ranked thirty-seventh in value of land and improvements, \$83,072,000, and thirty-fifth in gross value of agricultural products, \$33,571,000, and Rhode Island, which ranked forty-sixth in value of land and improvements, \$22,125,000, and forty-ninth in gross value of agricultural products, \$6,334,000. Their aggregate value in 1910 represents a combination of some of the largest values and some of the smallest values in 1900, and is, therefore, perhaps indicative of the average developments in the whole country.

Every one of the States shows an in-

READING ROOM
TRINITY COLLEGE

crease in the value of land and building, Iowa leading in the rate of increase from \$1,497,555,000 to \$3,253,719,000, or by 117.3 per cent., Illinois being second, from \$1,765,582,000 to \$3,511,194,000, or 99 per cent.; Indiana third, from \$841,735,000 to \$1,590,225,000, or 89 per cent.; Minnesota fourth, from \$669,522,000 to \$1,259,510,000, or 88 per cent., and Wisconsin fifth, from \$686,148,000 to \$1,179,558,000, or 72 per cent., with Rhode Island increasing from \$23,125,000 to \$27,456,000, or only 19 per cent. The total increase for the twelve States was from \$6,447,744,000 to \$12,264,811,000, or 90 per cent.

This rate of increase in aggregate value was greater than the rate of increase in the average price of land per acre. The comparison by States of the average acre price is made in the following table:

Acre Price of Land and Buildings.

States.	1900.	1910.	Increase per cent.
Connecticut.....	\$42	\$63	50.
Delaware.....	32	51	59.
Illinois.....	54	108	101.
Indiana.....	39	75	92.
Iowa.....	43	96	123.
Maine.....	15	25	67.
Michigan.....	33	46	39.
Minnesota.....	26	46	77.
New Hampshire.....	19	25	32.
Rhode Island.....	51	62	22.
Vermont.....	18	24	33.
Wisconsin.....	35	56	60.
Total.....	\$38	\$71	87.

In all the States save Michigan, Minnesota, Vermont and Wisconsin the rate of increase in average acre price was greater than the rate of increase in the value of lands and buildings. Part explanation of that is offered in the following tables, showing the changes in the past ten years in the total acreage in farm lands and in the improved acreage:

Total Acres in Farm Lands.

States.	1900.	1910.	Increase P. C.
Connecticut.....	2,312,000	2,176,000	*6.
Delaware.....	1,066,000	1,037,000	*3.
Illinois.....	32,795,000	32,471,000	*1.
Indiana.....	21,620,000	21,264,000	*2.
Iowa.....	34,574,000	33,965,000	*2.
Maine.....	29,898,000	6,291,000	*61.
Michigan.....	17,562,000	18,913,000	8.
Minnesota.....	26,248,000	27,263,000	5.
New Hampshire.....	3,610,000	3,242,000	*10.
Rhode Island.....	456,000	442,000	*3.
Vermont.....	4,724,000	4,653,000	*2.
Wisconsin.....	19,863,000	21,012,000	6.
Total.....	171,130,000	172,669,000	.9

*Decrease.

Improved Acreage in Farm Lands.

States.	1900.	1910.	Increase P. C.
Connecticut.....	1,065,000	984,000	*8.
Delaware.....	754,000	712,000	*6.
Illinois.....	27,693,000	28,065,000	1.
Indiana.....	16,680,000	16,903,000	1.
Iowa.....	29,898,000	29,467,000	*1.
Maine.....	2,387,000	2,558,000	*7.
Michigan.....	11,799,000	12,819,000	9.
Minnesota.....	18,443,000	19,909,000	6.
New Hampshire.....	1,077,000	927,000	*14.
Rhode Island.....	187,000	178,000	*5.
Vermont.....	1,127,000	1,633,000	*23.
Wisconsin.....	11,247,000	11,882,000	6.
Total.....	123,363,000	125,477,000	1.7

*Decrease.

Only three of the twelve States show an increase in acreage—Michigan, from 17,562,000 to 18,913,000, or 8 per cent.; Minnesota, from 26,248,000 to 27,263,000, or 5 per cent., and Wisconsin, from 19,863,000 to 21,012,000, or 6 per cent., while the decreases ranged from 10 per cent. in New Hampshire, from 3,610,000 acres to 3,242,000 acres, to one-tenth of one per cent. in Maine, from 6,300,000 to 6,291,000 acres. The total increase was from 171,130,000 acres to 172,669,000 acres, or at the rate of nine-tenths of one per cent.

At the same time the increase in improved acreage was from 123,363,000 acres to 125,477,000 acres, or at the rate of 1.7 per cent., and there were increases in five States—Illinois, from 27,693,000 acres to 28,065,000 acres, or

1 per cent.; Indiana, from 16,680,000 acres to 16,903,000 acres, or 1 per cent.; Michigan, from 11,799,000 acres to 12,819,000 acres, or 9 per cent.; Minnesota, from 18,443,000 acres to 19,909,000 acres, or 6 per cent., and Wisconsin, from 11,247,000 acres to 11,882,000 acres, or 6 per cent.

The improved acreage in Vermont decreased from 2,127,000 to 1,633,000, or by 23 per cent., and in New Hampshire from 1,077,000 to 927,000, or 14 per cent. Iowa, which led in the percentage of increase in the value of farm lands, showed a decrease of 2 per cent. in the total acreage, and of 1 per cent. in improved acreage. The total acreage in Continental United States in 1900 was 338,592,000 acres, valued at \$16,614,647,000, and the total improved acreage was 414,498,000 acres. If the acreage in the whole country increased in the ten years at the average rate of increase shown for the twelve fairly typical States, the total acreage in 1910 was 346,139,000 acres. If the improved acreage in the whole country increased at the average rate in the twelve States, the improved acreage in 1910 was 421,544,000 acres. If the value of farm lands and buildings increased at the average rate for the twelve States, the value in 1910 was \$31,567,829,000.

In 1900 there were in the South a total of 337,982,000 acres in farm lands, of which 116,780,000 were improved. And the aggregate value was \$3,073,781,000. The average acre value of farm lands and buildings in 1900 was about \$19 in the whole country, and about \$9 in the South. If the average rates of increase for the twelve States prevailed in the whole South, the total acreage in farm lands in 1910 was 341,024,000 acres; the improved acreage was 118,765,000 acres, and the value of land and buildings was \$5,840,183,000.

Until full returns of agriculture in 1910 are made for such States as Washington, whose population increased 120.4 per cent. in the past ten years; Oklahoma, with an increase of 109.7 per cent.; Idaho, with an increase of 101.3 per cent.; New Mexico, with an increase of 67.5 per cent.; Arizona, with an increase of 66.2 per cent.; Oregon, with an increase of 62.7 per cent., and North Dakota, with an increase of 80.8 per cent. in population, the estimate as to acreage and values for the whole country can only be tentative, and the same thing may be said of the South until returns from such States as Florida, Texas and West Virginia are made.

As the estimate now stands, the low price of lands in the South, compared with the average acre price of \$108 in Illinois, \$96 in Iowa and \$75 in Indiana, for instance, should be an inducement to thrifty farmers in other parts of the country to settle in the South. The total area of the South is 516,446,000 acres, of which, according to the estimate, 341,024,000 acres are already in farms, but of which only 118,765,000 acres are improved. About 24,000,000 of the South's acres are non-agricultural, mountainous lands in the Appalachian Mountains, and another 55,000,000 acres are wet lands now in course of reclamation for most profitable agriculture. Then, too, a large portion of the 232,400,000 acres of wood lands in the South is included in farm lands already owned. But, including the reclaimable wet lands and the difference between 118,765,000 acres of improved land and 341,024,000 acres in farms, there are at least 100,000,000 acres of land in the South available for agriculture of the most satisfactory kind.

WORKING FOR THE SOUTH.

Several letters of encouragement for the MANUFACTURERS RECORD in the work it has been doing for nearly thirty years in the interest of the material advancement of the South have been received by us in the past week. Mr. Edward Wisner of the Louisiana Meadows Co., New Orleans, a successful pioneer in the reclamation of wet lands in the South, refers, in a letter published in full elsewhere, to the fact of the MANUFACTURERS RECORD's part in attracting attention to the wonderful opportunities in the drainage of the wet prairie lands of Louisiana, and says:

The interest thus aroused has continued to spread until investors, large land operators and dredgeboat men from all parts of the country are flocking to Louisiana, and within the past year an immense acreage has passed to various land companies for the purpose of immediate reclamation. These developers are the very people whom the South has needed to reach. They are the same people who have made the West, the Southwest, the Northwest and Western Canada, and the result of their experience, the capital which they have accumulated in their previous works, will now be turned to the development and exploitation of Louisiana's resources. The general campaign of education which was led by your journal has resulted not only in convincing the outside world, but it has produced a revolution in sentiment here. The people who live in Louisiana are now beginning to appreciate the value of their resources, which have lain so long dormant. Louisiana wet lands are worth millions of dollars more than they were when you lent your influence towards their development, and I think the MANUFACTURERS RECORD is entitled to a very large share of the credit for the uplift which has come, the final results of which are enough to stagger the imagination of anyone. Once again the MANUFACTURERS RECORD has demonstrated its value as a friend of the South, and is to be congratulated on such demonstration.

Mr. Charles N. Bancroft, vice-president and general manager of the Roman Nose Gypsum Co., Bickford, Okla., in renewing his subscription, writes:

We wish to assure you that we do not want to miss a single copy of the MANUFACTURERS RECORD, as it certainly has been, in our opinion, the best single factor in placing the wonderful resources of both the South and Southwest before the investing public; also believe that your work is only just begun, for with the finishing of the Panama Canal, which will place the two sections in question in more direct connection with the wonderful interests to be developed thereby, will give you an unlimited field to work upon. The wonderful advantage to the sections in question should be apparent to everyone.

The spirit of this letter is manifest in another from Mr. F. A. Baumgarten of the Schulenburg Oil Mill, Schulenburg, Tex., who writes:

I cannot do without the MANUFACTURERS RECORD, and should I be on a trip when your subscription falls due, let same come forward, and I will remit upon my return. I have been figuring on a trip around the world with various steamship lines, and, if proper arrangements are made to suit, do not let MANUFACTURERS RECORD fail to come, even if I fail to remit in time.

So, too, Mr. Charles Kantorowicz of Little Rock, Ark., writes:

It affords me great pleasure to read the MANUFACTURERS RECORD, so instructive and reliable, especially the continuous hard work you do for the upbuilding of Southern resources. I am proud to say I was a subscriber to the MANUFACTURERS RECORD 22 or 23 years ago.

W. D. Overbey, secretary and treasurer of the Danville Lumber & Manufacturing Co., Danville, Va., writes:

We read the MANUFACTURERS RECORD with much interest and fully appreciate the good it is doing for the South.

C. A. Rees, Flynn-Ames Building, Muskogee, Okla., writes:

You certainly deserve the patronage of every man, woman and child in the Southern

States. Send me the MANUFACTURERS RECORD. I could not do business without it.

ELECTRIC ENTERPRISE IN THE SOUTH.

One of the greatest electric railway and power enterprises ever conceived in this or any other country is now receiving its first real impetus toward consummation in the Piedmont region of the Carolinas. The breadth and extent of its scope is such as to arouse the interest of all, planning as it does to connect a number of important cotton-mill cities and towns for the purpose of providing them not only with new and adequate means of transporting freight and passengers, but for supplying electricity to light streets, roads and buildings, and to operate manufacturing plants or other machinery. This is the plan announced sometime ago by J. B. and B. N. Duke, well-known tobacco manufacturers, and their associates, who recently began a series of visits to the different places concerned in the success of the project, holding public meetings and securing pledges of subscriptions and business patronage for the purpose of assuring employment for the railway and power-plants before they are created, and thus give additional warrant to the investment of about \$7,000,000, which, it is said, is the sum of money necessary to the fulfillment of the promoters' plans.

Especially interest attaches to this scheme, because it is the most extensive of its kind yet started in the South and by Southern men, although there are already operating in this section such important lines as the Washington, Baltimore & Annapolis Electric Railway, the Maryland Electric Railways, the Richmond & Chesapeake Bay Electric Railway (which latter is to be extended northward to Washington, D. C.), the Texas Traction Co.'s road and the Northern Texas Traction Co.'s line, besides the Galveston-Houston Electric Interurban Railway, the latter under construction, and which will be finished and put in operation this year, according to present prospects and expectations. Reference must also be made to the Kentucky Interurban Railway around Lexington, Ky.; the Nashville & Franklin Interurban, out of the Tennessee capital; the Memphis & Lakeview Traction Co.'s road in the same State; the Fairmont & Clarksburg road in West Virginia and its extension under way to Weston; the Augusta & Aiken line in South Carolina; the Gulfport & Mississippi Coast Traction Co.'s road in Mississippi, besides sundry other lines of greater or less importance here and there.

In addition to those mentioned, all of which are now operating, excepting the Galveston-Houston line, there are several important plans almost certain of fulfillment, such as the Tidewater Railroad in Alabama, proposing to build from Gadsden via Birmingham to Tuscaloosa; the Nashville & Gallatin line in Tennessee; the Isothermal Traction Co.'s road between Gastonia, Rutherfordton and Asheville, N. C.; the Atlanta & Carolina Railway in Georgia, and others.

There is another very extensive railroad enterprise which is just now taking on more life and promises of success. This is the South Atlantic Transcontinental road, projected by Col. S. A. Jones of Waynesville, N. C., to be electrically operated, but which may, according to the present outlook, use other motive power if it proves desirable. This road is to extend from coal fields

in Tennessee via Knoxville in that State, Asheville, N. C., to Southport, N. C., where a coal shipping terminal is to be established. The contract, according to late dispatches, is let to a prominent firm of railroad builders, and construction is reported begun in a mountain pass near Waterville, N. C.

Apparently, the South will witness within its borders an extraordinary amount of electric railroad building during the next several years. Moreover, in addition to the enterprises herein mentioned, are many others whose promoters express confidence in the promised success of their plans.

In connection with this outline of Southern electric railway enterprises, it is pertinent to mention the activity in Missouri, a State closely allied to the South, with respect to similar projects. The McKinley lines, known as the Illinois Traction System, recently obtained entrance to St. Louis by means of a new bridge over the Mississippi, and it is now rumored that President W. B. McKinley and his associates are interested financially in the proposed trans-Missouri electric railway that is to connect St. Louis with Kansas City. It appears that construction of this road may soon begin, recent reports coming from Kansas City, where the headquarters are located, to the effect that the necessary financing has been arranged. But there is another important electric road already under construction in Missouri to connect Mexico, Perry and other points by a line about 80 miles long, and there are, besides, several plans which are expected to be fully realized in other parts of the State.

Over in Oklahoma, too, there is much interest and enterprise manifested toward the building of electric interurban railways. There are two plans of importance for roads out of Joplin, Mo., one to extend to Bartlesville, Okla., the other to go to Oklahoma City via Muskogee and Shawnee. Some other lines are either begun or projected, so that it seems as if people of the new State are believers in railroads operated by the new power, and there is a prospect of a system of interurbans to connect with similar lines in the northern part of Texas.

Undoubtedly much of the growing interest in and popularity of electricity in railroad operation is due to the demonstrated fact that power may be had cheaply from hydro-electric plants properly constructed, and that the water necessary to the maintenance of the latter in service can be conserved, so as to give assurance of reliability. It may also be remarked that out of this increasing development of water-plants to create electric power we can expect to see grow a movement looking toward greater forest conservation for the sake of preserving a good average flow of water in the streams.

RICHMOND FINANCES.

A most satisfactory exhibit of conditions at Richmond, Va., is made in a statement prepared by George S. Crenshaw, special accountant, and published by authority of the City Council Committee on Finance, H. R. Pollard, Jr., chairman. By the charter of the city the debt limit is fixed at 18 per cent. of the assessed value of the taxable real estate in the city. This limit at present is \$14,703,455, and the net debt is only \$9,037,032, or about \$5,666,000 less than the limit, and the city's salable assets exceed its debt by more than \$8,500,000. The tax rate for all purposes is based upon 75 per cent. of the market value on real estate and market value on

personal property at—city, \$1.40; State, 35 cents on each \$100 of values. There are no assessments for street improvements other than for sidewalk and alley pavement. The city owns its gas and water-works and municipal electric-lighting plant, of a total value of \$7,900,000. In addition to these facts, the statement includes a summary of the advantages of living in Richmond and figures showing the growth on many lines in the past 10 years.

THE COTTON MOVEMENT.

In his report for January 20 Col. Henry G. Hester, secretary of the New Orleans Cotton Exchange, shows that the amount of cotton brought into sight during 142 days of the present season was 9,109,613 bales, an increase over the same period last year of 1,331,243 bales. The exports were 5,141,784 bales, an increase of 1,133,543 bales. The takings were, by Northern spinners, 1,391,712 bales, an increase of 36,935 bales; by Southern spinners, 1,098,200 bales, a decrease of 14,911 bales.

Marketing of Cotton.

Union-Buffalo Mills Company.

Union, S. C., January 18.

Editor *Manufacturers Record*:

Several weeks ago one of your correspondents called at my office and afterwards wrote an interview in your paper with me. In the main, the matter contained in the interview was correct, but there was one paragraph reading:

"There are half a dozen commission men in New York handling the output of the Southern mills who could put the price of goods up enough to give the spinners a profit, but they, being paid a commission on sales, have no personal pecuniary interest in seeing the price of goods advance, etc."

This interview was not taken down at the time we were talking, and it has been brought to my attention that the paragraph referred to reflects upon the honesty of my commission men in New York, and I want to say that I had no idea of reflecting upon them in the slightest, for I have the highest opinion of my commission men. The interview was written by your correspondent from memory, and I wish you would do me the kindness to print this letter. Yours very truly,

AUG. W. SMITH,

President.

[Had the MANUFACTURERS RECORD thought that the paragraph referred to could have by any means been considered as in any way reflecting upon the integrity of anyone it would not have been published. We regarded it as merely a comment upon the policy of half a dozen commission men described in the interview as "instead of trying to educate the jobbers and consumers to pay an advance, they are either indifferent or openly opposed to an advance, as well as being against the present price of raw cotton." No reference was made to any individual commission man or to any particular mill in this connection, and we regarded the statement as simply bearing upon a policy as to sales involving no question of integrity.—MANUFACTURERS RECORD.]

Metals in 1909.

The output and value of the chief metallic products from domestic sources in the United States for the calendar year 1909 are shown in the subjoined table, compiled by W. T. Thom of the United States Geological Survey. The value of the pig-iron produced has not yet been computed:

Metals.	Quantity.	Value.
Pig-iron, tons.....	25,735,471	
Gold, ounces.....	4,821,701	\$99,873,406
Silver, ounces.....	54,721,590	28,455,200
Copper, pounds.....	1,092,951,624	142,083,711
Lead, tons.....	354,188	30,499,168
Zinc, tons.....	279,225	24,864,391
Quicksilver, flasks.....	21,075	888,710
Tungsten, tons.....	1,619	614,370
Antimonial lead, tons.	8,889	847,731

SOUTHERN PROGRESS.

Annual Blue Book for 1911 of the Manufacturers Record.

All men of affairs who wish to have in form handy for ready reference the facts of what the South has done in the past 30 years, what it is doing now and what it possesses for greater doing will find them in the MANUFACTURERS RECORD's "Annual Blue Book of Southern Progress for 1911." This pamphlet of 64 pages is the most compact and convenient source of information about material development in the South that has ever been given to the public. It is the statistical epitome of the past and present of the South, and bristles with information about the elements of certainty as to the South's great future.

In this comprehensive volume are the records showing that 41 cities in the South, each now having a population of more than 25,000, have in the past 30 years increased their aggregate population from 1,506,915 to 3,570,770, or by nearly 137 per cent., an index to the growth of industries in the South, that of 9,000,000 estimated horse-power in Southern streams only about 1,000,000 horse-power has been developed, and that the value of the cotton crop of the South in 10 years has exceeded by more than \$1,761,000,000 the value of the gold and silver produced by all the mines of the world in the same period, while the value of exports of raw cotton has exceeded the value of all the gold mined in the same time. The cotton crop, with its seed, now approaches \$1,000,000,000 in value a year, and yet that amount is less than 40 per cent. of the total value of all agricultural products of the South, \$730,000,000, for instance, being the value of 1,104,000,000 bushels of cereals harvested in 1910. Comparison of the progress of the South and that of the country marks the industrial advancement of the South, shown in more active cotton spindles in the South now than were in the whole country in 1880, in a greater cut of lumber in the South by more than 5,000,000,000 feet, in pig-iron production and in petroleum output nearly equal the country's 30 years ago, and in the greater amount by 30,000,000 tons of coal mined. Increase in 30 years in railroad mileage from 20,612 to 71,907 miles, in the value of exports from \$265,000,000 to \$628,000,000 and in resources of national banks from \$171,000,000 to \$1,371,000,000, are among other items treated in the "Blue Book of Southern Progress" by States and in comparison with the rest of the country.

Among the special new features in this issue are the figures of live-stock in the South, while to all the statistics of the 14 Southern States have been added, where possible, the figures of Oklahoma and Missouri, without, however, including them in the Southern totals.

For each of these 16 States and the District of Columbia is presented a separate table summarizing the facts of 30 years set forth in the topical tables. In the statistics generally the latest and most authoritative figures available have been used and, where estimates have been made, the effort has been to give conservative results.

For nearly thirty years the MANUFACTURERS RECORD has published as quickly as they have become accessible the magnificent facts of Southern achievement, upon which these latest and most up-to-date statistics are based, and has in addition issued from time to time more or less elaborate summaries, which have carried to the four quarters of civilization the knowledge about the South which has been so effective in hastening its material development. Coincidentally the MANUFAC-

TURERS RECORD has furnished in printed matter or in personal correspondence to thousands of statesmen, educators, business men, newspapers and magazines similar material for orations, essays, editorials and other articles, in the desire to neglect no opportunity or means of furthering the work and keeping the South and the rest of the world informed of the vast possibilities within the area stretching from Maryland to Texas.

This pamphlet contains the cream of all these efforts. Copies of the "Annual Blue Book of Southern Progress" can be had of the MANUFACTURERS RECORD of Baltimore for 25 cents each.

TWO YEARS OF IRON.

Estimate of Production in 1909 and 1910 Shows Increase.

No statistics of the production of iron ore in 1909 have heretofore been available for publication by the United States Geological Survey, as the data for that year have been collected in co-operation with the Bureau of the Census, and returns are still incomplete, owing to the greater detail in which the statistics of mining and manufactures are tabulated every tenth year.

In response to telegraphic requests by the director of the survey at the close of 1910, reports and estimates of iron-ore production for 1909 and 1910 were promptly sent to the survey by 18 of the largest iron-mining companies, whose combined output represents about 75 per cent. of the total production of the United States. From these returns it is estimated by E. F. Burchard of the survey that the iron ore produced in 1909, not including stocks left at the mines, was between 51,000,000 and 52,500,000 long tons. Of this quantity, 45,500,000 to 46,500,000 tons were red hematite, the remainder consisting of brown hematite, magnetite and carbonate ores, in the order named. The returns for 1910 indicate that between 52,500,000 and 54,000,000 long tons of iron ore were produced, of which between 47,000,000 and 48,000,000 tons were red hematite.

The following tables afford a comparison of the quantities of iron ore produced in the years 1907 and 1908 with the estimates of production in 1909 and 1910, and also a comparison between the quantities of iron ore produced and the pig-iron manufactured. The data on the pig-iron are taken from the annual reports of the American Iron and Steel Association, with the exception of those for 1910, which are estimated:

Production of Iron Ore and Pig-Iron in the United States, 1907 to 1910, in Long Tons.

	Iron ore.	Pig-iron.
1907.....	51,729,619	25,781,361
1908.....	55,981,339	15,935,018
1909.....	*51,750,000	25,735,471
1910.....	*52,250,000	*27,099,422

*Estimated.

The shipments of iron ore from the Lake Superior region in Minnesota, Michigan and Wisconsin were as follows:

Production of Iron Ore from Lake Superior Region, 1907 to 1910, in Long Tons.

1907.....	41,526,579
1908.....	28,108,079
1909 (estimated).....	41,490,000
1910 (estimated).....	42,000,000

According to the figures given for the production of pig-iron, it may be expected that the final returns for production of iron ore in 1909 and 1910 will exceed rather than fall below the mean estimates given above.

The Back Home Movement.

At the meeting to be held at Chattanooga February 15 in furtherance of the back home movement inaugurated by W. D. Roberts, assistant industrial agent of the Carolina, Clinchfield & Ohio Railroad, a special committee is expected to report

a definite plan for securing the co-operation of all interests likely to be affected by the success of the movement. At the preliminary meeting at Altapass, N. C., Mr. Ed. M. Hafer of the Georgia Immigration Bureau was made chairman and Mr. R. T. Marshall of the Carolina, Clinchfield & Ohio Railroad was made secretary.

COTTON.

Census Review of Conditions in the Year Ended Last August 31.

In the year ended August 31, 1910, there were 134,526,000 active cotton spindles in the world, according to the Census Bureau, and 18,079,000 bales of cotton of 500 pounds net. In the United States there were 29,188,945 active spindles, Massachusetts ranking first, South Carolina second, North Carolina third, Rhode Island fourth, Georgia fifth, New Hampshire sixth, Connecticut seventh, New York eighth and Maine ninth among States each having more than 1,000,000 active spindles. Continuing, the report states that the supply of cotton in the United States for the year ended August 31, 1910, was 12,188,021 bales, a decrease of 20 per cent. under the previous year, when the supply amounted to 15,312,885 bales. This decline apparently measures the difference between an adequate supply and one insufficient for the normal demand. The loss of 3,124,864 bales in the supply of cotton for 1910 is practically equal to the difference between the 1909 and 1908 cotton crops of the United States. Although the production of cotton in India last year was about 650,000 bales in excess of that of the previous year, nearly all of this increase was required to offset the loss in the crops of Egypt and of other foreign countries.

The total quantity of cotton imported into the United States during the year ended August 31, 1910, amounted to 172,075 bales of 500 pounds each. Of this cotton the equivalent of 20,680 bales of 500 pounds each was re-exported, leaving in the country 151,395 bales, valued at about \$15,500,000.

Nearly all the cotton imported is Egyptian, used largely in the manufacture of thread, knit goods and machine lace, and Peruvian, which is used as a substitute for wool in the manufacture of woolen goods. Recently a number of manufacturers have been experimenting with Chinese cotton in the manufacture of upholstering materials and in some instances in the manufacture of knit underwear. The direct importations from China for the cotton year 1910 amounted to 7129 bales, and the direct importations of Indian cotton, used, among other purposes, for mixing with the American fiber in the manufacture of cheaper grades of goods, amounted to 8756 bales of 500 pounds each, a very large increase over any previous year.

An interesting illustration of the manner in which foreign countries have suffered during the past year from the short supply of American cotton is presented by the statistics of exports, which, for the year covered by the present report, show a decrease of 2,234,906 bales, or 26 per cent., from the previous year, smaller than for any year since that ended August 31, 1905.

About 81 per cent. of all the cotton exported during the year ended August 31, 1910, is credited to ports within the cotton-growing States, only 19 per cent. having been exported from ports outside of these States. The exports from Galveston, New Orleans and Savannah represented about two-thirds of the total, while those from Galveston alone amounted to more than one-third.

The report also discloses a noticeable change in the distribution of the export trade since 1880. At that time the United Kingdom took two-thirds of all the Ameri-

can cotton exported, France one-tenth and Germany one-twelfth; but during the year ended August 31, 1910, the United Kingdom took about two-fifths, Germany nearly one-third and France nearly one-seventh. The exports to Italy since 1880 have increased more than sixfold.

Because of the important position of the United States as a producer of textile materials, and the large aggregation of capital in the country employed in the manufacture of textiles, approximately accurate statistics of the supply of the leading textile fibers, distributed according to countries of production and showing the relative importance of the different fibers are presented in the report.

The relative importance of these fibers has undergone considerable change during the past century. Flax fiber, which was used to a larger extent in 1800, now ranks fourth, and the quantity of flax produced is only about three times what it was at that time. In the same period the production of wool has increased from about 500,000,000 pounds to nearly 2,700,000,000 pounds, or more than fivefold, and that of cotton from about 300,000,000 pounds to 8,505,000,000 pounds, or more than twenty-eight fold. The increase in the production of jute is the most remarkable of all. The quantity in 1850 was 60,000,000 pounds, as compared with 2,918,000,000 pounds in 1900. The increases since 1880 are as follows: Cotton, 44.8 per cent.; wool, 11.4 per cent.; silk, 112.3 per cent.; flax, 85.3 per cent., and jute, 56.9 per cent., while hemp shows a decrease. If the figures for 1908 were taken as the basis of comparison the increase for cotton would be 81.8 per cent.

The total production for 1909 of the leading textile fibers was 17,529,174,000 pounds, of which cotton constituted 48.5 per cent.; wool, 15.3 per cent.; silk, less than one-half of 1 per cent.; flax, 10.6 per cent.; hemp, 8.2 per cent., and jute, 16.6 per cent. The total supply of these textile fibers in commercial channels at the beginning of the nineteenth century amounted approximately to 1,400,000,000 pounds, of which cotton formed about 22 per cent.; wool, 33 per cent.; silk, 2 per cent., and flax, 43 per cent.

Iron Ores of Alabama.

Editor Manufacturers Record:

In reading your article in your issue of the 19th inst. on "Iron Ores of Alabama," I want to comment somewhat upon the letter of C. E. Stewart. The part of the letter that I wish to say something about is that relating to shipping ore from the Gadsden district to Chattanooga.

We have in the Estelle field, 28 miles from Chattanooga, a large body of ore land, possibly containing 200,000,000 tons, most of which will average 37 per cent. in metallic iron and 8 per cent. silica in hard ore. A three years' average through the Chattanooga furnace of the Estelle ore shows an average of 37 per cent. plus in metallic iron. The bed of ore is about the same thickness as it is at Gadsden, and is about equal in quality.

The point of all this is that Gadsden district has shipped ore to Chattanooga because Chattanooga has not developed its own resources in that particular. We are looking forward in the near future to a change in the situation, when we will develop our own ore resources, and not call on Alabama for our needs.

E. M. JONES, M. E.
Chattanooga, Tenn.

Wants Bank Building Plans.

The Bank of Edenton, N. C., invites architects to submit plans and specifications for a 25x56-foot bank building to cost from \$8000 to \$10,000.

KENTUCKY COAL FIELDS.

New Developments Come With Railroad Extension.

[Special Cor. Manufacturers Record.]

Barbourville, Ky., January 23.

Much new capital is being invested in the coal-mining industry in this section. Almost every week witnesses the organization of a new coal development concern, and at a number of points in the Southeastern Kentucky district new mines are being opened and modern plants installed.

A fifty-thousand-dollar plant will be installed in the Puckett Creek district, Bell county, by Dr. Samuel Bennett of Williamsburg and H. B. Jones of Pineville. These gentlemen have leased 1500 acres from Jacob Howard of Pineville. Work on the new plant will begin at once. Dr. Bennett is one of the leading coal operators of Kentucky, having interests in a number of large companies. He is now having erected a \$50,000 plant for the Jewel Jellico Coal Co., Williamsburg, Ky., being president of that newly-organized concern.

The Greasy Creek Coal Co. is another new concern in the Bell county district. The company is composed of Pineville (Ky.) operators. A large tract has been leased from the Greasy Creek Land Co. A plant will be installed at once in the Greasy Creek district, which is tapped by a railroad extension branching from the Louisville & Nashville at Four Mile. R. N. Cornett of Pineville will superintend the installation of the new plant.

The Jellico Consolidated Coal Co., Gray, Ky., has taken over the operations of the old Lynn Camp Coal Co., and will thoroughly renovate the plant and engage in the mining business on a large scale. The plant will be developed to a capacity of several hundred tons per day. The mines are 10 miles from this city, on the Louisville & Nashville Railroad.

The Ada Coal Co. is a new organization at Artemus, four miles from here. The company has purchased the old plant of the Artemus Jellico Coal Co., owned by Barbourville operators, and will resume operations after an idleness of several years.

In the Chenoa district, Bell county, the Chenoa-Hignite Coal Co., a new concern, has its plant ready for shipments. This company has installed one of the most modern operations in the Bell county field, and will greatly augment the tonnage coming out of that district, which is reached by an 11-mile extension from the Louisville & Nashville.

With the completion of the Black Mountain & Wasioto Railroad into the Harlan county coal fields a vast amount of new capital will be expended in coal and coking developments in that section, which is one of the richest undeveloped coal fields in the South. Millions of dollars have been invested in coal property, and millions more will be spent in opening mines, building coking plants and extending branch railroads into contiguous coal areas.

The Wasioto & Black Mountain line, beginning at Pineville, has been completed within two miles of Harlan town. Along the completed portion a number of mining plants have been installed, the largest being those of the Asher Coal Mining Co., Wasioto, Ky.

The Wisconsin Steel Co., subsidiary to the International Harvester Co., owns an immense acreage of coking coal in the Looney's Creek district. An extension from Harlan will tap this property, and the company will soon begin the installation of a large coking plant.

The extension of the Lexington & Eastern Railroad, recently acquired by the

Louisville & Nashville, into the Eastern Kentucky coal fields will be followed by the investment of millions of dollars in that section of Kentucky's undeveloped coal territory. Investors have been flocking to the territory to be penetrated by the new line for several years past, and most of the available acreage has long since been acquired. While the Louisville & Nashville extension, over 90 miles in length, presents some very difficult obstacles in the way of construction, work is being pushed rapidly.

There is every prospect of the early extension of the Cumberland Northern Railroad from this city north through Clay and Owsley counties to Beattyville. Engineers have been mapping out the line for some time, and over 30,000 acres of coal lands have been bought by those interested in opening the territory for development forces.

W. S. HUDSON.

Iron and Steel Facts.

Part II of the Annual Report of the American Iron and Steel Association for 1909 is now ready for distribution. It contains valuable statistics which could not be incorporated in the report which was published at the end of July last. Part II is uniform in all respects with the July report and previous reports. It contains the following statistics:

Production of plates and sheets in 1909 and previous years; production of black plates for tinning since 1905; production of tinplates andterne plates since 1891; production of nail plates by States from 1905 to 1909; production of miscellaneous rolled iron and steel products by States; production of iron and steel merchant bars in 1909; production of iron and steel skelp from 1905 to 1909; production of rolled iron and steel in 1909 by products; production of rolled iron and steel by States from 1905 to 1909; comparative production of rolled iron and steel by States in 1908 and 1909; active rolling mills and steel works in 1908 and 1909; total production of finished rolled iron and steel since 1887; production of forged iron and steel from 1906 to 1909; production of iron and steel in Allegheny county, Pennsylvania; production of hammered charcoal iron blooms, billets, etc., from 1906 to 1909; production of cut nails in 1909 and previous years; production of wire nails in 1909 and previous years; comparative production of cut and wire nails since 1896; production of pig-iron in the United States for one hundred years, from 1810 to 1909; summary of iron and steel statistics for 1908 and 1909; production of steel ingots and castings and finished rolled iron and steel in Canada in 1909.

Manufacturers and others who are not members of the association can obtain copies of Part II by remitting \$2 per copy. The price of both reports for 1909 is \$7. They cover all details of production and prices not only for 1909, but also for several previous years. Address James M. Swank, general manager, 261 S. 4th street, Philadelphia.

\$500,000 Norfolk Improvements.

The public improvement and finance committees of Norfolk, Va., have formulated a plan to expend \$500,000 for public improvements. The amount is to be divided as follows: Church street paving, \$138,000; east side, sixth ward streets, \$61,000; east side, sixth ward fire station, \$25,000; Brambleton streets, \$20,000; Berkley streets, \$30,000; fourth ward streets, \$60,000; drainage, \$31,000; Westover and Bossevain avenues, \$8000; No. 2 fire station, \$15,000; water meters, \$50,000; to connect Freemason and Falkland streets, \$65,000; to purchase Calvary Cemetery annex, \$17,000; miscellaneous, \$33,000.

\$220,000 SUBSCRIBED IN 50 MINUTES.

Charlotte Business Men Manifest Their Practical Faith in Interurban Lines.

[Special Correspondence Manufacturers Record.]

Charlotte, N. C., January 21.

Possibly never before in the history of Charlotte has there been a more representative gathering of its business men than assembled at the Selwyn Hotel last night, upon the invitation of the Greater Charlotte Club, to meet Messrs. J. B. and B. N. Duke, the promoters of the proposed interurban electric railway system in this section.

There was a distinct feeling in the air that something out of the ordinary would occur, and before the evening was over this proved to be the fact. The meeting was enthusiastic, and everyone recognized that this great undertaking, which is backed by such successful men as the Dukes, meant much for the benefit of the city, on account of the increased development that this new electric railroad will make possible in this section of the South.

It is intended that Charlotte be the central point of the interurban electric railway, and, with the Southern Power Co., one of the South's largest and best managed businesses already located here, Charlotte bids fair to become a city of greater prominence and importance in the business world.

No one need say that factories cannot locate in the Piedmont region of the Carolinas on account of the lack of power, for the Southern Power Co. stands ready to welcome to this section any manufacturing plant, large or small, that may desire to locate here, and, with the facilities that the interurban railway will give for the products, every inducement is offered to the manufacturer or mill man to move his plant to some point reached by these two great giants of industry that bid them but to come and reap the benefit of cheap power and cheap transportation. The proposition as outlined by Mr. W. S. Lee in his talk is in part as follows:

The management of the proposed electric railway is to be vested in the hands of a syndicate to be known as the Piedmont Syndicate, and the syndicate as being organized will be managed by a board of six members, Messrs. J. B. and B. N. Duke, Ellison A. Smyth, Lewis W. Parker, W. S. Lee and Samuel McRoberts, vice-president of the National City Bank, New York. These men are to give their services to the syndicate absolutely without charge, and it is proposed that, when the road is built and dividends are assured from the shipping contracts, the road is to be bonded and each shareholder is to receive his pro rata share of the profits. Mr. Lee said that he had previously endeavored to induce the Dukes to undertake this interurban development for this section, but they did not see their way clear to take up the suggestion at that time, but since the Southern Power Co. now has substations located every 20 miles from Greenville, S. C., on the south to Greensboro, N. C., on the north, with extensions easily possible, the interurban could more easily be established in the Piedmont section, as only about 7500 horse-power would be required to operate the entire system. He spoke of the purchase of the electric railways at Anderson, Greenville and Charlotte for the purpose of building the interurban, and that the Dukes would furnish three-fourths of the entire amount necessary for the building of the railroad if the towns interested would raise the other one-fourth.

Mr. Z. V. Taylor of the Southern Power Co. followed Mr. Lee, and dwelt upon the fact that the interurban would enable the merchants of Charlotte to reach the country trade, and that the farmers could

bring their goods into the market for the day's business, as the railroad would carry both freight and passengers and would reach a section of the country that urgently demands better traffic facilities. He explained that the citizens of Charlotte would be asked to subscribe \$300,000 as their quota for the building of the road, this amount being wanted so that they would have a personal interest in the welfare of the road and not merely one of sentiment. They will be asked to sign an agreement to the effect that they will give one-half of all traffic and freight moved by rail to the interurban, this to become effective, however, only when the railroad is in a position to handle this traffic and to give such a rate as the shipper could otherwise secure. Mr. Taylor made a most earnest appeal for the co-operation of the merchants and business men of Charlotte, as it was essential to have their good-will.

Mr. D. A. Tompkins gave the movement his hearty approval. He referred to the time, 20 or 25 years ago, when the citizens were asked to subscribe as a bonus \$300,000 for a railroad, it being purely a patriotic movement, with no stock consideration, and with only the hope of securing benefits in an indirect way, and said that if Charlotte could afford to give at that time that sum for a railroad in which they had no personal interest, Charlotte today ought easily to give \$1,000,000.

Mr. E. M. Cole of the Cole Manufacturing Co. made a most eloquent appeal, citing the benefits that the citizens of Charlotte would receive, and compared Charlotte with other cities far less favorably situated that had grown to large proportions on account of the constructed and natural means for transportation. He said that Charlotte, surrounded as it is by a most fertile country, had now the chance needed for stupendous growth with this added railroad facility.

Mr. C. O. Kuester, president of the Greater Charlotte Club, also spoke favorably of the proposition, after which a call for subscriptions was made. That business was meant is seen in the fact that in about 15 minutes \$157,000 worth of stock was subscribed, and that \$222,000 was booked in 50 minutes. The list was then closed to allow any other business men of Charlotte who were unable to be present an opportunity to subscribe later on. It is understood that when the full amount is subscribed and the shippers' contracts signed work will commence within 30 days.

Among those present to meet Messrs. J. B. and B. N. Duke were D. A. Tompkins, Mayor T. W. Hawkins, F. C. Abbott of Suburban Realty Co., E. L. Probst of Probst Contracting Co., W. A. Avant of Avant Wood & Coal Co., R. D. Craver of Charlotte Sign Works, A. L. Smith of H. A. Cook & Co., Edgar B. Moore, O. S. Stone of Stone-Barringer Company, J. M. Harry of J. M. Harry & Co., G. H. Bellinger of Yarbrough & Bellinger Company, Paul Chatham of Carolina Brick & Tile Co., John M. Scott of John M. Scott & Co., E. A. Smith, president Chadwick-Hoskins Company; J. R. Wilkes of Mecklenburg Iron Works, Jasper Miller, president Jasper Miller & Son Company; James Harrison, manager Doubleday-Hill Electric Co.; J. H. Weddington, president Weddington Hardware Co., Inc.; P. L. McMahon, treasurer Textile Mill Supply Co.; V. J. Guthrey, president Charlotte Leather Bolting Co.; C. W. Parker, president Parker-Gardner Company; J. P. Munroe, president Lindell Manufacturing Co.; E. W.

Thompson, division manager Southern Cotton Oil Co.; John B. Ross, president John B. Ross & Co.; D. P. Hutchison of Williams & Sheton Company; E. M. Cole, president Cole Manufacturing Co.; M. C. Mayer, manager Mayer Grocery Co.; O. H. Washburn, J. A. Durham of Durham-Murphy Land Co., C. Valear of Valear Bottling Works, George Stephens, president American Trust Co.; Vinton Liddell of Liddell Manufacturing Co.; R. A. Dunn, vice-president Commercial National Bank; R. M. Miller, Jr., president Elizabeth Cotton Mills; T. J. Davis, president Elba Manufacturing Co.; C. P. Moody of C. P. Moody Company, H. M. Wade of H. M. Wade Manufacturing Co., David Owens of J. B. Ivey & Co., Dr. R. L. Gibbons, R. K. Blair, C. B. Bryant, Capt. A. G. Brenizer, D. A. Anderson, C. M. Carson, J. W. Cuthbertson, W. F. Dowd, H. W. Eddy, J. W. Frazier, M. F. Harding, A. Theis, E. L. Kessler, B. R. Lee, A. J. Draper, W. H. Wood, J. B. Alexander, M. B. Speir, J. W. Pharr, J. G. Shannonhouse, T. M. Shelton, B. F. Withers, Col. J. Myers, Dr. J. W. Faison, J. Arthur Henderson, C. C. Hook, W. R. Wearn, O. D. Wheeler, Stuart W. Cramer, McClung Realty Co., Cameron Morrison, W. S. Lee, Jr., Z. V. Parker, W. P. Gray, J. L. Ludlow of Winston-Salem, N. C.; A. J. Crowell, E. V. Patterson, etc.

The Greater Charlotte Club has the details in hand, and is to be commended for the very able manner in which it has done its work in bringing about so successful a meeting, which means so much for Charlotte, as well as the South. It is an up-to-date hustling organization, of which Mr. C. O. Kuester is president and W. T. Carwith secretary.

J. LOUIS SPENCER.

PLEDGED MORE THAN \$300,000.

Greenville Men Earnest for Electric Development.

[Special Cor. Manufacturers Record.]

Board of Trade.

Greenville, S. C., January 21.

In point of representative attendance and in the demonstrative character of the meeting, the business men of Greenville held an epoch-making meeting in the rooms of the Board of Trade last Tuesday evening. The occasion was that of the monthly meeting of the Merchants' Association. The business men had as their guests J. B. and B. N. Duke, W. S. Lee, J. P. Arrington, Z. V. Taylor, H. J. Haynsworth, E. A. Smyth, L. W. Parker, J. I. Westervelt, J. T. Woodside, F. W. Poe, J. D. Woodside, J. M. Geer, A. G. Furman, W. J. Thackston, J. P. Clark and others.

Much has been said recently about the electric roads which were built by the Dukes and the interests represented at the meeting. The definite proposition was made to the business men for the first time Tuesday, that the cities of Greenville and Anderson, with the territory between them, subscribe \$500,000 to the road. Immediately after the proposition was made Capt. E. A. Smyth offered his subscription of \$50,000, L. W. Parker made his subscription of \$50,000, and a number of other subscriptions all around the ten and twenty-thousand mark were made. The total showed that Greenville had gone above the three-hundred-thousand mark. Announcements were made by several mill presidents that their mills would subscribe 25 cents per spindle to the road.

After the subscriptions had been secured the shippers of the city were called upon to sign a freight agreement, in which they pledged under certain conditions to give the electric road a specified percentage of their freight business. These agreements were signed by the greater number of the business men present, and a committee was appointed from the Merchants' Association consisting of Messrs. J. R. Smith, J. B. Bruce, Geo. T. Barr, A. B. Carpen-

ter, Walter West, B. F. Rush, C. J. Pride, P. C. Munn, H. Endel, J. Thos. Arnold and M. B. Leach to secure other signatures. The result of the work has been most encouraging, and it is certain that the new road is going to have the unqualified support of the business men of Greenville.

E. B. ADAMS,

Secretary.

Interest in Other Communities.

In addition to the meetings at Charlotte and Greenville, other meetings were also held at Spartanburg and Greenwood S. C., for the interurban railway, power and light company. Spartanburg is asked for \$250,000, with fine promises of success, and at Greensboro the amount requested has been nearly, if not quite, all raised. Only \$30,000 was lacking at the last report. Greensboro, N. C., is also to have a meeting to raise a subscription, and Salisbury and Durham are also places yet to be heard from on the proposition.

TEXAS CITY'S GROWTH.

Improvements Under Way and Contemplated.

Texas City, Tex., January 16.

Editor Manufacturers Record:

Texas City probably numbers more optimists pro rata among its population than any other city on the Gulf coast of Texas, and developments during the past year have shown this optimism to be well founded. Glance for a moment at the history of the place for the 12 months ended December 31, 1910. On January 1, 1909, the population of Texas City was approximately 800. This number has steadily increased until today there are about 3000 people making this their permanent residence. The causes for this rapid growth are:

First—The tremendous increase in the shipping through this port, thus furnishing employment for hundreds of extra dock hands, who, in turn, create a demand for building tradesmen, merchants, etc.

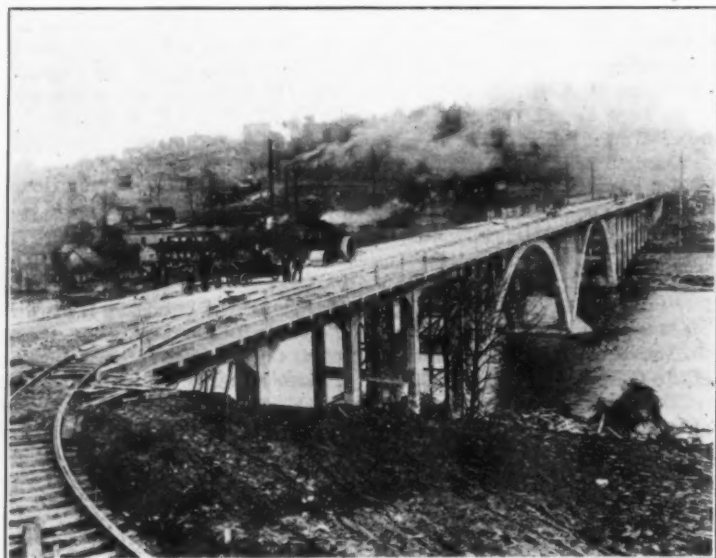
Second—The locating at this place of a number of new industries.

The value of the shipping via Texas City for the 12 months ended December 31, 1909, amounted to approximately \$34,000,000. This was considered very good, inasmuch as the shipping in years prior to that time had always been far below that figure. Now, without any solicitation, but just as a natural increase due to the favorable location of the port, the shipping suddenly swells in value to more than \$78,000,000 for the year ended December 31, 1910. To meet the incidental demand for increased facilities the Texas City Transportation Co. has been making extensive improvements during the past year, with the result that Texas City now boasts of having in course of completion a modern, convenient and comprehensive dock, warehousing and terminal system. When the present plans shall have been consummated the port will be equipped to handle many times its present volume of business.

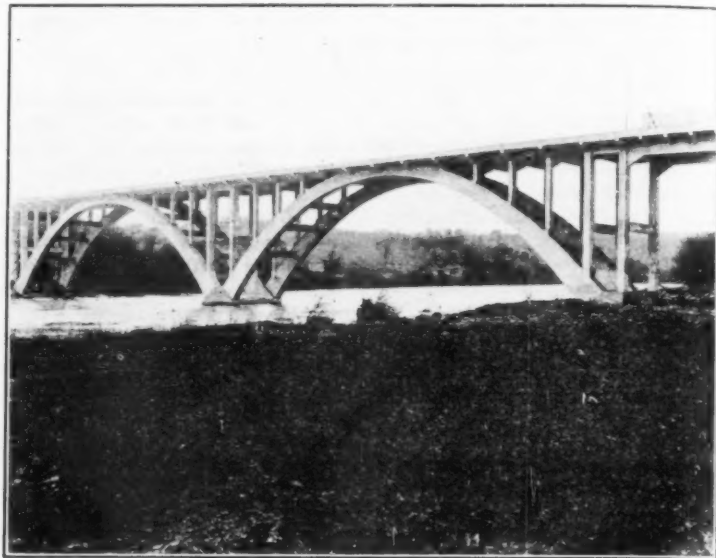
A marked increased efficiency in transportation, both rail and water, and for both passengers and freight, has been effected here during the same period of time, the Texas City Terminal Co. alone having added many miles of switch track to the terminal system. These miles of track will be supplemented with a third rail and all of the switching done by electricity, which, besides greatly facilitating the handling of freight, will also eliminate the danger of fire from sparks from locomotives. This feature, together with the fireproof construction of warehouses and the excellent fire-fighting system, secures for these properties an insurance rate fully 90 per cent. below that of other Gulf ports.

The Galveston-Houston Interurban is

HANDSOME REINFORCED CONCRETE BRIDGE AT ASHEVILLE.



CONCRETE BRIDGE NEARING COMPLETION.



VIEW OF COMPLETED STRUCTURE.

This handsome reinforced concrete bridge, 98 per cent. complete, spans the French Broad River and connects the city of Asheville with West Asheville, a thriving and energetic little city of 3500. The entire construction is of reinforced concrete, with a total length of 931 feet 6 inches, composed of two clear spans of 145 feet each, with east approach of 475 feet, and west approach of 135 feet. The distance from the top of the bridge at the center of the arch to the water at normal stage is 50 feet. It has a 30-foot roadway, with electric car line in center, and 12 feet 6 inches clear roadway on each side of the rail. It is designed for a capacity of three 35-ton electric cars en train, with 24-ton road roller and 100 pounds to square foot for balance, with good margin of safety beyond. The total cost of the bridge was \$70,000; including right of way and incidentals, \$72,000. The engineer is R. P. Johnston, Asheville, N. C.; the contractors are C. B. Clarke & Co., Baltimore. The bridge will be open to the public February 10, 1911. The Asheville Electric Co. is extending its line across bridge to the western portion of West Asheville, a distance of a little more than two miles, at a cost of nearly \$40,000. Large forces are at work at both ends of line, and cars are expected to be in operation by April 1, 1911. This bridge is only about a quarter of a mile up the river from the viaduct recently completed by the Southern Railway, and shown in the MANUFACTURERS RECORD of December 29.

also a valuable addition to the transportation facilities of this place; for by this means the people of Texas City will be afforded easy access to the larger cities of Galveston and Houston, and at a nominal rate of fare.

The Texas City Terminal Railway tracks connect as a belt line with those of all of the great systems centering in Galveston, which include the International & Great Northern, Southern Pacific, Missouri, Kansas & Texas, Gulf, Colorado & Santa Fe (Santa Fe system), Galveston, Houston & Henderson, Rock Island system, Galveston, Harrisburg and San Antonio, Colorado & Southern (Burlington system) and Frisco system. It is perhaps needless to add that the low rates resulting from this excellent arrangement is greatly encouraging the routing of freight via this point.

Texas City is also very rapidly coming to the front as an industrial center, and it is safe to predict that the next few years will find this one of the principal manufacturing cities of the South. During the past six months the promoters of Texas City have succeeded in landing several industries of no small proportions, among which are included a cottonseed delinting plant, a concrete brick and block factory and an up-to-date ice-manufacturing plant. These plants will all be in operation in time for this year's business, and will have a capacity great enough to meet at least the immediate demands.

Besides the above, upon which building operations have actually begun, the promoters of this place are negotiating with a number of manufacturers throughout the country who have expressed a desire to locate here. Several of these are now preparing plans for early operations, and have virtually closed deals for factory sites.

Texas City offers many inducements for the establishment of manufacturing plants within its borders, which accounts for the recent remarkable developments along this line. Raw material in endless quantities and variety are lying unappropriated at the very doors of the city; convenient and inexpensive means exist for transporting

them to factories and mills, as well as for the distribution of the finished product, and last, a ready market may be found for all classes of articles of manufacture. The Texas City Company offers free factory sites to industries of sufficient magnitude to warrant, as well as free artesian water and cheap electrical power, all of which is having its effect in bringing new industries to this place.

Realizing the pressing need of modern conveniences, the Texas City Company has prepared plans for the immediate installation of a complete sewer and water system, which will involve the expenditure of about \$500,000. The power-house for the generating of electrical current for lighting and industrial purposes is already installed, and such power may now be had at a cost slightly above the actual cost of production. These plans also contemplate the installation of a complete system of distribution lines for this power.

These improvements are absolutely assured, work having already begun. One-half million dollars is now available with which to prosecute this work, having been secured through the sale of first mortgage bonds sold through the firm of Peabody, Houghteling & Co. of Chicago. Improvements along other lines will also be undertaken simultaneously with those above mentioned, which will include three new business blocks, an attractive bay shore hotel surrounded by beautiful parks and shade trees, and a magnificent bathing pavilion and resort for the convenience and accommodation of tourists.

No wonder our citizens are prone to speak of the place as "the coming New York of the Gulf Coast." Its growth has been marked and rapid—all of the above having occurred within the past year—and yet nothing in the nature of a "boom" has at any time been attempted. Texas City's citizens are prosperous and happy, and are contemplating the future with a confidence good to behold. **EDWARD T. GLIOT.**

It is reported that the Pratt Consolidated Coal Co. of Birmingham mined last year 1,900,000 tons of coal.

HOUSTON SHIP CHANNEL.

Citizens Vote for a \$1,750,000 Bond Issue.

Houston, Tex., January 18.

Editor Manufacturers Record:

Not only all Texas, but the entire Middle West, watched closely the result of an election held in the city of Houston on the 10th of January. Transportation matters of great magnitude hinged upon the result. Now all that territory is extending congratulations and voicing praise of the splendid manner in which a critical situation was met. Houston and the county in which this city is located have voted bonds to the amount of \$1,250,000 to be utilized in the speedy completion of the Houston ship channel from its present depth of 18 feet to a minimum depth of 25 feet, thus guaranteeing the permanence of this city as a port and the perpetuity of low freight rates for all of this section based upon water competition.

The degree to which Houston met the responsibility which was placed upon her is best evidenced by the figures showing how the votes were cast. Of the total of 7058 votes, 6824 were in favor of the bond issue, but 234 against it. By this practically unanimous vote the taxpayers called the hand of the Federal Government. It was accomplished in this way. Last February the people of this city sent a deputation to Washington to appear before the rivers and harbors committee for the purpose of urging an appropriation for the ship channel and to demonstrate the faith which Houston holds in this waterway to the sea. It was proposed that if the United States Government would appropriate \$1,250,000 and would supervise the work and make all disbursements, that this city and county would appropriate a like sum and turn it over to the Government engineers. The rivers and harbors committee had been accustomed to be importuned to make appropriations based largely upon political pull and exigencies, so that this clear-cut business proposition struck the body as being unique. In addition to this, the Government already stood committed to this project, as a little over

\$3,000,000 had been spent upon it and the Government engineers had pronounced it meritorious in every way. Consequently, Houston was given \$1,250,000 in the last waterways bills, contingent upon a like sum being raised at this end of the line. Houston has now taken the step which makes the Government's money available, and the bonds will be sold immediately, the money forwarded to Washington and the last work on the ship channel begun.

Houston has been working for a sufficient depth of water in her channel to open traffic to the largest ocean-going vessels for nearly 20 years, but the Government insisted upon letting the work in small contracts, section by section. Two years ago it became apparent that this method was not only proving unnecessarily expensive, but was delaying unnecessarily the completion of the work. Experts were called in, and they all reported that the work could be completed within two years at a cost not to exceed \$2,500,000 if the contract were let for the entire work and at one time. Then it was that Houston determined upon the course which has just resulted so triumphantly. It was found that in order to issue the bonds for the ship channel construction a State law would be necessary which would create a navigation district empowered to issue bonds for such an improvement. A year ago the State Legislature passed this law, and Houston and Harris county were constituted a navigation district. Then came the proposal to go into partnership with Uncle Sam, which was accepted by Congress. Thus it will be but a short time until the great waterway is opened to traffic, long before the Panama Canal is sweeping the world's commerce through new channels.

Houston's waterway in its present state carries a heavy tonnage and is an immense factor in the business affairs of the city and of a wide extent of territory which benefits by the low freight rates it assures. The tonnage last year totaled 1,295,690 tons, and was valued at \$37,439,120. With the speedy completion of the Panama Canal assured, all the transcontinental lines are seeking a Gulf outlet, and Hous-

ton, with her 17 railway lines, is the center of some shrewd railroad manipulation which promises to see several strong systems not yet represented here scurrying in this direction when the final work begins on the ship channel.

At the same time the ship channel bonds were voted upon the taxpayers of Houston voted affirmatively upon a half-million-dollar bond issue for the purpose of erecting a magnificent concrete viaduct across the channel at the foot of Main street, connecting the north and south sides of the city. Preliminary construction work upon this structure has already begun.

On the Saturday following the bond elections the City Commissioners purchased a beautiful tract of wooded land along White Oak Bayou to be converted into one of the prettiest parks in the South. In connection with this improvement will be an elaborate boulevard system. This expenditure of \$150,000 is made from the current revenues of the city without increasing taxes or issuing bonds. **WALTER S. GARD.**

Durant in the Field.

Chamber of Commerce.

Durant, Okla., January 21.

Editor Manufacturers Record:

Durant is just now organizing a strong Chamber of Commerce. The Chamber has practically every man in the city and county behind it, and will very soon be ready to ask and help factories and industries that may wish to locate in this section.

Durant is a splendid town of 8000 people. It has three railroads, and has a most remarkable proposition for another short one, and is looking for someone to build it. The streets are being paved with brick; there are miles of cement walks; a State Normal College, costing \$100,000, just completed; a Presbyterian college for girls just completed, costing \$90,000; a number of fine church buildings; is preparing to construct a municipal lighting and power plant, a private corporation already operating a good one; has a fine water system; has four rivers in the county, which is 1000 square miles in area; plenty of fine hardwood timber; farming lands as good as the best, and the cheapest civilization, grade for grade. In fact, we have nearly everything any other like size town has, but we need more.

We want a cotton factory, and will pay for it.

We want a brick and pottery plant, and have the best by test of clays and shales.

We want woodworking plants, wagon and plow factories—anything to work up the immense forests.

We want a canning factory, a bagging factory, a corn and flour mill, cigar factory, hominy mill—there is a field for nearly any kind of factory, and any of them can get substantial help.

We have a pipe line for oil running through the city direct from the great Creek fields.

W. S. STERRETT,

Secretary.

Orders for Steel Rails.

[Special Dispatch to Manufacturers Record.]

New York, N. Y., January 25.

Rail orders this week: Tennessee Coal, Iron & Railroad Co. has aggregate orders for 25,900 tons thus: Nashville, Chattanooga & St. Louis Railway, 2000 tons; Georgia Railway & Electric Co., 500 tons; Buenos Aires Central Railroad, 1000 tons; Southern Railway, 22,400 tons. It is understood that the Southern has placed an order with the Maryland Steel Co. for 3000 tons; also that the Carnegie Steel Co. will furnish 9900 tons to the Western Maryland. The Illinois Steel Co. is reported to have 7800 tons of orders for various roads.

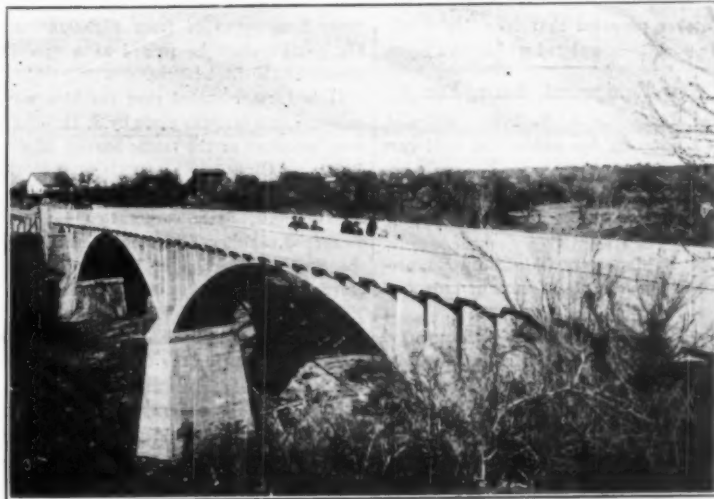
GOOD ROADS

ACROSS MEDINA RIVER.

Notable Texas Road Improvement Near San Antonio.

[Special Cor. Manufacturers Record.]
San Antonio, Tex., January 21.

There has recently been completed a reinforced concrete bridge across the Medina River, 11½ miles south of San Antonio, Tex., on what is called the Pleasanton road. The total length of the bridge is 330 feet, the main spans being 110 feet each. The center pier is 38 feet high from ground to span. The extreme height of the bridge is 65 feet. The width of the roadway is 18 feet. In the construction of



REINFORCED-CONCRETE BRIDGE NEAR SAN ANTONIO.

the bridge 106,000 pounds of steel was required for reinforcing. The cost of the work was about \$25,000. Next to the Galveston causeway and the Austin bridge over the Colorado River, this is the largest reinforced concrete bridge in the State.

Bexar county, of which San Antonio is the seat, is much interested in good roads development. There are more than 200 miles of good roads in the county, and hearty co-operation is given by the authorities to the movement for a high-way reaching from Washington to Atlanta, thence to New Orleans and San Antonio, and ultimately to complete a Southern roadway from the Atlantic to the Pacific.

Work immediately in hand by the County Commissioners of Bexar county include the recent completion of five and one-half miles on the Eastern end of the Austin road, carrying it to the county line; a four-mile extension of the Sulphur Springs road, on which work has commenced, and two and one-quarter miles extension of the Bandera road, north of the city, advertisements for which are now running.

The city of San Antonio is completing a reinforced concrete bridge across the San Antonio River, on Travis street. It is to have a 90-foot single span, built on the cantilever plan, with a width of 55.6 feet. It will be finished within a few weeks at a cost of \$14,800. **ALBERT PHENIX.**

WEEK'S HIGHWAY RECORD.

Progress in Southern Road and Street Improvement.

[Full details of highway undertakings are given in the Construction Department.]

Bonds Voted.

Mendenhall, Miss.—Simpson county authorized sale of \$40,000 of road bonds.

Rogersville, Tenn.—Hawkins county authorized issuance of \$40,000 of road bonds.

Sumter, S. C.—Sumter county authorized \$10,000 of bonds for road improvements.

Bonds to Be Voted.

Charlotte, N. C.—City contemplates voting on issuance of \$250,000 of street bonds.

Chattanooga, Tenn.—Hamilton county will petition Legislature for authority to issue \$500,000 for improving roads and \$100,000 for completing Rossville boulevard.

Durham, N. C.—City has asked Legislature for authority to issue \$30,000 of bonds for streets, sidewalks, sewers and disposal plant.

Tupelo, Miss.—City contemplates voting on issuance of \$25,000 of bonds for street improvements.

Contracts Awarded.

Birmingham, Ala.—City awarded contract at about \$50,000 for asphalt paving

Huntington, W. Va.—City will receive bids until February 20 for paving two alleys.

Huntington, W. Va.—City will receive bids until February 6 for laying 124,500 square yards of street paving and 69,100 linear feet of curb.

Louisville, Ky.—City is having plans prepared for 20,000 square yards of asphalt paving, estimated to cost \$40,000.

Mobile, Ala.—City will receive bids until February 16 for 33,000 square yards of wood-block paving, 13,426 linear feet of cement curbing, 10,350 linear feet of storm sewers, 11,400 square yards of cement pavement, 8400 feet of granite curbing, etc.

New Albany, Miss.—Union county will construct roads.

Norfolk, Va.—City plans an appropriation of \$138,000 to pave six streets.

Norfolk, Va.—City plans street improvements as follows: In Sixth ward, at cost of \$61,000; in Brambleton, at \$20,000; in Berkley, at \$30,000; in Fourth ward, at \$6000; Westover and Bossevain avenues, at \$8000; connecting Freeman and Falkland streets, at \$65,000.

Roanoke, Va.—City will invite bids for granolithic sidewalks, street macadamizing, guttering, paving, etc.

San Antonio, Tex.—Bexar county opened bids January 23 for about one mile of resurfacing and about one-half mile of road construction.

Seguin, Tex.—City opened bids January 25 for 4000 feet of curbing, with culverts and sidewalks, and for about one mile of 40-foot macadam street, etc.

Tarpon Springs, Fla.—Town opened bids on January 24 for 3000 square yards of vitrified brick paving and 3500 feet of vitrified curbing.

Electricity at Chicago.

The sixth annual Electrical Show, which was held in Chicago from January 7th to the 21st, was perhaps more comprehensive in every respect than any similar event, because the exhibits covered practically every known application of electric lighting, electric power and electric heating, as well as the electric vehicle for pleasure and commercial purposes.

These annual shows have for their purpose the education of the general public on the subject of applied electricity. At them the laymen as well as those with a technical and practical knowledge of electricity learn much of the great possibilities of electric current and how it is performing many tasks not physically possible heretofore, and how it has lightened and simplified many commercial processes.

Every year records many advancements in this wonderful industry, and through no source is it possible to see in actual operation and demonstration the special application and features of new devices as through the annual electrical shows. At them an opportunity is afforded the expert, layman or student to investigate the advances made from time to time.

The show this year was broad and comprehensive, and the equipment exhibited was of such a variety that the housewife, storekeeper, manufacturer, the operator of electric plants, and, in fact, every visitor found something that was educative and gave him a new insight into the wonderfully diversified possibilities of electricity and its application to many widely-varied purposes.

The latest issue of the Journal of American Society of Engineering Contractors contains papers by H. R. Fardwell of St. Louis on sewers and sewer construction in St. Louis, and Robert Isham Randolph of Chicago on the Illinois waterway, together with discussions.

RAILROADS

[A complete record of all new railroad building in the South will be found in the Construction Department.]

FLORIDA'S NEW LINE.

Extensive Construction Proposed by the Atlantic, Okeechobee & Gulf Railway Co.

R. L. Riley, first vice-president of the Atlantic, Okeechobee & Gulf Railway Co., which, as recently reported, has published notice of its intention to apply on February 18 for a charter in Florida, writes from 818 Audubon Building, New Orleans, La., that it is now in position to announce its organization with Henry C. Ferriot of New Orleans, president; R. L. Riley of the same city, first vice-president, the other directors being A. H. West, E. E. West, W. S. Jordan, J. Q. McPherson and W. H. Milton of Jacksonville, Fla., and Walter Graham of Arcadia, Fla. The company proposes to immediately build its main line from Tampa to Miami, Fla., about 275 miles. Including branches, the company will eventually have about 60 miles of road. Later executive offices will be opened in Tampa, but at present the office in New Orleans is headquarters.

It appears that the gentlemen interested in this enterprise have been engaged for nearly a year on arrangements for its organization. The main line will begin at a point near Tampa and run through Hillsboro, Polk, De Soto, Lee, Palm Beach and Dade counties to a point near Miami, with a branch from Melbourne, in Brevard county, southwest; also through St. Lucie, Oseola, De Soto and Lee counties to a point near Fort Myers; also a branch from that point northerly through Lee, De Soto, Manatee and Hillsboro counties to Tampa, and lastly a branch from Bassinger, in Oseola county, northward to St. Cloud. The capital stock will be \$1,000,000, which may be increased at the rate of \$10,000 per for each mile built. Other officers are mentioned thus: Walter Graham, second vice-president; A. H. West, third vice-president; Daniel A. Simmons of Jacksonville, secretary; W. H. Milton, treasurer, and Francis Belding McGarry of Jacksonville, general counsel.

The stockholders will meet to organize at the office of the Florida Trust Co. in Jacksonville on March 14, and President Ferriot is quoted as saying that everything is ready for the preliminary survey and the line will be constructed as soon as possible after the charter is granted. Bids will be opened March 15. Hiram McElroy will be chief engineer. The line will develop a new section of Florida, including the lake district of Polk and De Soto counties, which will thus be opened to tourists, and it will also make available valuable farming territory besides much timber land.

Mr. Ferriot, who heads the company, was formerly editor and proprietor of the *Daily Chronicle* at Algiers, La., opposite New Orleans; Mr. Riley was connected with the Southern Pacific Railway; Mr. Milton was formerly a United States Senator, and Mr. Jordan is Mayor of Jacksonville. The application for charter is signed by the officers herein named, besides the directors, including Hunter W. Raiford and the Broward Land Co., E. L. Higbee president.

PENSACOLA TO JASPER.

Proposed New Railroad Will Connect With Western Trunk Lines.

The Gulf, Florida & Alabama Railroad Co., for which it was recently announced that application would be made for charter in Florida, with Megargel & Co., bankers of 5 Nassau street, New York, among

those interested, will, according to a report from Pensacola, build a line about 250 miles long from that city to Jasper, Ala., which latter is on the Frisco and also on the Illinois Central route to Birmingham. Application has been made to the city of Pensacola for a franchise therein.

It is further reported that the company has an option on the railroad of the Southern States Lumber Co. in Alabama, which may form about 50 miles of the new route. The line, it is claimed, will furnish a direct and valuable outlet for the products of the great mineral district of Alabama, and will in other respects be a highly desirable and superior road. It is proposed to establish wharves and warehouses in Pensacola to handle business, and a forfeiture of \$10,000 is provided if the promises of the promoters are not fulfilled to the city. It is further provided that 90 miles of the route must be completed within two years.

New Equipment, Rails, Etc.

The Louisville & Nashville Railroad, says a dispatch, has ordered 32 steel cars for express trains.

The Central of Georgia Railway is reported getting prices for special equipment on 300 freight cars.

The Baltimore & Ohio Railroad proposes to purchase 15,000 tons of rails, and is getting prices.

The Illinois Central Railroad is reported preparing plans for 45 locomotives, including 20 Consolidation, 20 Mikado and 5 Pacific. The same company, it is said, will build 100 logging cars 36 feet long and 40 tons capacity at its own shops.

The Louisiana Railway & Navigation Co., says a report from New Orleans, has ordered four chair cars from a Northern factory.

The Pennsylvania is reported in the market for 500 box cars, 300 gondola cars and 30 flat cars for its lines west.

The South Covington & Cincinnati Street Railway is reported in the market for 20 cars. Address Covington, Ky.

The Norfolk & Western Railway, says a market report, has ordered 3500 tons of bridge steel, one-third from the Phoenix Bridge Co., Phoenixville, Pa., and two-thirds from the Virginia Bridge and Iron Works, Roanoke, Va.

The Missouri Pacific Railway is reported to have ordered 2000 cars from the American Car & Foundry Co., St. Louis, Mo.

The Chesapeake & Ohio Railway, says a market report, has ordered about 50 locomotives, including 24 Mallet articulated compound and the rest to be divided between Pacific and Consolidations.

The Santa Fe system, according to a market report, has ordered 500 cars from the American Car & Foundry Co.

The Memphis Union Station Co. is said to have ordered from the Tennessee Coal, Iron & Railroad Co., Birmingham, 650 tons of rail.

The Chesapeake & Ohio Railway's rail order is reported to have been divided thus: 7200 tons to the Pennsylvania Steel Co. of Steelton, Pa., and the Maryland Steel Co., Sparrows Point, Md., and 7800 tons to the Carnegie Steel Co., Pittsburgh, Pa.

The Kanawha & Michigan Railway, according to market reports, will purchase 2000 cars.

The Norfolk & Western, it is reported, will purchase from \$500 to 10,000 tons of steel for a new bridge.

The Pennsylvania Railroad is reported to have ordered 70,000 tons of rails, divided between the Carnegie Steel Co. of Pittsburgh and the Illinois Steel Co. of Chicago, 63,000 tons from the Cambria Steel Co., Cambria, Pa., and 8000 tons from the Bethlehem Steel Co., Bethlehem, Pa.

The Clinchfield Coal & Coke Co., says a report from Birmingham, Ala., has ordered

300 steel coal cars from the Birmingham Car & Manufacturing Co. of North Birmingham, and the material to make them will be furnished from the Bessemer plant of the Tennessee Coal, Iron & Railroad Co.

The Frisco system is reported to have ordered 800 tons of steel from the American Bridge Co., New York.

Oklahoma May Own a Railroad.

Dispatches from Oklahoma City say that a movement was started at a meeting of the public service committees of the two houses of the Legislature to build a railroad which shall be owned and operated by the State. The plan suggested is for the present Legislature to name a commission which shall work together with the corporation commission to select a route for the line, following which a bill authorizing a State bond issue of from \$5,000,000 to \$10,000,000 shall be passed at a special session of the Legislature.

It is further stated that the idea was endorsed in addresses made by J. H. Johnston, manager of the traffic bureau of the Oklahoma City Chamber of Commerce; E. F. Bisbee of Morris & Co., packers; Geo. A. Henshaw, State corporation commissioner; J. Luther Langston, secretary of the State Federation of Labor; William Garrison, former president of the State Farmers' Union; Charles L. Daugherty, State labor commissioner, and E. W. Vance, representing the Order of Railway Conductors.

One of the speakers claimed that a State-owned road would provide the Corporation Commission with a practical means of estimating other railroads in Oklahoma, and that it would aid in the control of rates on interstate commerce.

If the Legislature does not act at this session, it is said that a bill will be prepared by those interested in the movement and started on its way toward enactment at a later session.

Western Maryland's Extension.

Gratifying progress is being made on the Connellsville extension of the Western Maryland Railway, and, according to the present outlook, it will be finished before the expiration of the contract limit. Grading and tunnel work are both so well advanced that the builders and the company are much encouraged. The grade, it is stated, will be finished by April 1 instead of August 15, as per contract. The tunnel through Big Savage Mountain is about half bored through, and the other tunnels are well under way. The line will be finished for operation, it is confidently expected, by November 1 next, and perhaps earlier, by reason of the rapid progress made. The new line is 87 miles long from a point just outside of Cumberland, Md., to Connellsville, Pa., connecting there with the New York Central's line in that city. John B. Carter is president of the Carter Construction Co., which has the general contract, and his chief engineer is A. W. Jones, formerly with the Carolina, Clinchfield & Ohio Railway. The Western Maryland's chief engineer is H. R. Pratt, and G. H. Friend is principal assistant engineer on the line.

Tidewater Plans Advancing.

Forney Johnston, attorney for the Tidewater Railroad Co., according to a report from Birmingham, Ala., says that work on the road will begin within two months between East Lake and Bessemer via Birmingham. This section of the line is about 35 miles long. It is also said that the McArthur Bros. contracting firm will be the general contractors for the work, and that its representative will be on the ground within a few days to prepare specifications for intending bidders.

The Birmingham, Ensley & Bessemer

Railway Co. has filed incorporation papers to acquire the right of way and franchise of the railroad, this being, it is said, part of the organization plans. Paul Mitchell is president; De Witt B. Lightner, vice-president and treasurer, and A. F. Kummer, secretary; capital \$3000.

Mr. Johnston is further reported as saying that everything is in fine shape for the enterprise, and that there is no doubt that the road will be built.

Kansas, Oklahoma & Panama.

Dispatches from Oklahoma City say that construction on the Kansas, Oklahoma & Panama Railroad will soon begin. An amended charter has been filed to issue preferred stock, and it is said that insures the financing. The capital is \$1,000,000. Two lines are projected by the company, one from the northern part of the State through Woodward, Ellis, Roger Mills, Greer, Kiowa, Jackson, Comanche, Stephens, Carter and Tillman counties to the southern boundary; also another line from Beckham county east through Oklahoma City. R. W. Ruffin of Hamilton, O., is president; F. A. Mosher of Post, Okla., secretary and treasurer. The other incorporators are J. J. Winton of Sentinel, Okla.; A. H. Symcox of Cordell, Okla., and John Du Mars of Oklahoma City.

B. & O. Statement.

The Baltimore & Ohio Railroad Co.'s statement of earnings and expenses (exclusive of outside operations) for December, 1910, as compared with December, 1909, shows gross earnings, 1910, \$6,841,826; 1909, \$6,984,581; decrease, \$142,755. Expenses, 1910, \$5,313,884; 1909, \$5,068,624; increase, \$245,260. Net earnings, 1910, \$1,527,942; 1909, \$1,915,957; decrease, \$388,015. From July to December, 1910, as compared with the corresponding period of 1909, the statement shows gross earnings, 1910, \$46,996,377; 1909, \$47,027,781; increase, \$1,968,596. Expenses, 1910, \$33,630,940; 1909, \$29,864,998; increase, \$3,765,942. Net earnings, 1910, \$13,365,437; 1909, \$15,162,783; decrease, \$1,797,346.

Rock Island, Texico & Farwell.

A letter from Pecos, Tex., says that Carder Bros., railroad contractors, have arrived at Texico with three carloads of machinery and horses to work on the construction of the Rock Island, Texico, Farwell & Southern Railway. The contract is for 54 miles to be graded from Knowles, N. M., toward Farwell, Tex., and the line will be built into Pecos, which has guaranteed \$75,000 bonus. At Knowles \$60,000 has been guaranteed, and at Midland, Tex., \$102,000. A bonus has also been raised at Andrews, and at Seminole a bonus is now being gotten together. On the line about half a mile of grade is being built each day. The distance from Pecos to Knowles is 90 miles. M. J. Healy is president.

A Georgia Interurban Plan.

The Middle Georgia Interurban Railway, according to a report from Jackson, Ga., has begun construction of its line from Jackson to Griffin and Social Circle. W. F. Smith of Flovilla, Ga., is interested, and is doing the work between Union Spring and Jackson, about two and one-half miles. This will connect with the Flovilla & Union Spring Railway, two and a half miles long, and make a line five miles long. It is further stated that when this is completed application will be made for authority to issue more bonds to the amount of \$1,500,000 for the purpose of building the rest of the road. It is said that little grading will be necessary, and that the route is along the right of way of

a road started from Madison to Griffin several years ago.

Orangeburg to Springfield.

The Orangeburg Railway Co. has been chartered in South Carolina with \$50,000 capital to build the proposed road from Orangeburg to Springfield, 30 miles. It will be wholly in Orangeburg county, and will traverse a rich agricultural section. Ultimately it is to be extended to Columbia and Charleston, S. C., and Augusta, Ga., but it is not definitely decided whether the extensions will be made. A general freight and passenger business will be conducted. W. C. Wolfe, the principal stockholder, is president, and Jos. A. Berry, secretary, both of Orangeburg, S. C. The other director is Lawrence Manning of Sumter, S. C.

Pensacola Road Nearing Mobile.

The Pensacola, Mobile & New Orleans Railroad Co. says a report from Mobile, Ala., has started work preliminary to the construction of a large trestle necessary for the line to reach that city. As the road, which is now building, will doubtless be finished to the eastern shore of Mobile Bay long before the bridge can be erected, entrance to the city will be at first made by a ferry connection. It is said that nearly all the grading in Baldwin county has been completed, and it is promised that the road will be in operation next December. Henry McLaughlin of Pensacola, Fla., is president.

Burlington's Proposed Route South.

It is reported from Paducah, Ky., that the Chicago, Burlington & Quincy Railroad will not begin construction of its new line near Paducah until spring, and that meanwhile construction on the big bridge at Metropolis, Ill., will be started. It is further reported that the Burlington will connect with the Paducah and Memphis division of the Nashville, Chattanooga & St. Louis Railway, which company is making extensive improvements to this line. In some cases new bridges have been erected and in others old structures are made stronger. Some new heavy rails are also being laid.

Cincinnati & Nashville.

The Overton County Railroad, which is 19 miles long from Livingston to Algood, Tenn., on the Tennessee Central Railroad, will, it is reported, reorganize after the receivership as the Cincinnati & Nashville Railroad and extend northeast about 75 miles to Byrdstown, Monticello and Somerset, Ky. It is expected that contracts will be let in about four months, and the work will include two steel bridges and a trestle. Geo. A. Clark is receiver at 51 Noel Block, Nashville, Tenn., and W. W. Yeatman is superintendent at Livingston, Tenn.

San Antonio to Brownsville.

[Special Dispatch to Manufacturers Record.]

San Antonio, Tex., January 24.

The Chamber of Commerce of San Antonio is behind a citizens' movement to build from San Antonio to Brownsville or that vicinity. They propose organizing a construction company with \$500,000 capital to secure right of way, locate route and obtain bonuses. It is believed that \$2,500,000 in bonuses can be secured. Subscriptions to the capital stock shall be completed by April 1, 1911.

ALBERT PHENIX.

Thirty farmers from Indiana, Illinois, Iowa, Nebraska and Missouri have purchased, it is reported, for settlement at a cost of \$190,000, several tracts of land on the banks of the Bayou Teche, about 100 miles from New Orleans.

LUMBER

[A complete record of new mills and building operations in the South will be found in the Construction Department.]

TIGHT-COOPERAGE STOCK.

Preliminary Comparative Report of Production for 1909.

Washington, D. C., January 25.

The reported production of tight-barrel staves during 1909 was 379,231,000 pieces, valued at \$9,201,964, as against 345,280,000 pieces in 1908, and 385,232,000 pieces in 1907, valued at \$10,009,295 and \$12,942,885, respectively. The output of tight-barrel heading during the same years was 20,491,201 sets in 1909, 20,515,072 sets in 1908 and 27,692,994 sets in 1907, valued at \$3,716,296, \$4,397,148 and \$6,864,485, respectively.

This information appears in a preliminary comparative report covering 1909, 1908 and 1907, which was transmitted today to Census Director Durand by Chief Statistician William M. Stewart, under whose supervision it was prepared by J. E. Whelchel, expert special agent of the division of manufactures. In co-operation with the forest service of the Department of Agriculture, the Bureau of the Census annually collects and publishes statistics pertaining to the group of lumber and timber industries.

While the average value per unit of the total production of all classes of both tight-barrel staves and heading has decreased steadily since 1907, this movement has not extended to all classes of the stock separately, nor has it been so marked as the shrinkage in the total value of tight-cooperage stock during the three years would seem to indicate, the changing composition of the total of stave and heading output having exerted a considerable influence in this direction. In 1907 sawed staves, which have a lower average value per thousand than any of the other three classes of tight-barrel staves, formed 87.1 per cent. of the total reported production, while in 1908 they contributed 87.4 per cent., and in 1909, 90 per cent. Furthermore, the average value per thousand of sawed staves decreased markedly during these three years, being \$27.83 in 1907, \$24.47 in 1908 and \$20.76 in 1909. In this connection it is of interest to note the increasing use of other and cheaper woods than white oak as sawed-stave material. In 1907, 76.8 per cent. of the sawed staves were made from white oak, while in 1908 and 1909 the percentages of the totals were 70.7 and 63.6, respectively. Some of the more important species in point of quantity being substituted for white oak are red oak, basswood, gum, pine, ash, chestnut oak and cypress, in the order named. The substitution of other woods for white oak as material is practically confined, however, to sawed staves, the other three classes of tight staves, namely, bucked and split, hewed and beer and ale, requiring the best grade of selected oak.

With respect to geographic distribution little change is noted in the industry of tight-stave manufacture during recent years, the five States of Arkansas, Kentucky, West Virginia, Mississippi and Tennessee reporting 65.5 per cent. of the total production in 1909, 82 per cent. in 1908 and 68.7 per cent. in 1907. Of this group, Arkansas has led in all three years in aggregate output of tight-barrel staves, contributing 28.4 per cent. of the total in 1907, 27.3 per cent. in 1908 and 23.1 per cent. in 1909. The relative prominence of this State in the industry is due chiefly to its large annual output of sawed staves, it having reported 29.3 per cent. of the total production of this class of stock in 1907, 26.7 per cent. in 1908 and 22.3 per cent. in

1909. Little hewed stock was reported for 1909, except from the three States of Louisiana, Mississippi and Texas, which ranked in relative output in the order named. Louisiana reported 29.3 per cent. of this class of stock in 1907, 51.5 per cent. in 1908 and 46 per cent. in 1909. Kentucky, which State has been the principal producer of beer and ale staves for many years past, reported 59.5 per cent. of the total output in 1909, as against 36.8 per cent. in 1908 and 54.9 per cent. in 1907. Tennessee, which ranked second to Kentucky in the output of this class of stock in both 1907 and 1908, was passed by Mississippi and Arkansas in 1909, the former reporting 15.1 per cent. of the total pro-

duction for that year and the latter 12.7 per cent.

The manufacture of tight-barrel heading is somewhat more localized than that of staves, Arkansas and Tennessee reporting about half of the total production of sawed stock in 1909 and 1908 and two-thirds of that in 1907. Though not contributing an important proportion of the total of this class in 1907 and 1908, Mississippi reported 12 per cent. of the output in 1909. Nearly 85 per cent. of the output of beer and ale heading in 1909 was produced in Kentucky alone. This State, with Tennessee, reported 59.1 per cent. of the total in 1908 and 75 per cent. in 1907. The comparative summary follows:

Class.	1909.		1908.		1907.	
	Quantity (number).	Value.	Quantity (number).	Value.	Quantity (number).	Value.
Aggregate.....	379,231,000	\$9,201,964	345,280,000	\$10,009,295	385,232,000	\$12,942,885
Sawed:						
Oil and tie.....	158,457,000	\$3,503,859	167,509,000	\$3,838,168	179,375,000	\$4,686,294
Split and wine.....	38,933,000	1,637,839	38,732,000	1,640,961	41,452,000	1,924,567
Half barrel.....	19,356,000	190,446	(*)	(*)	(*)	(*)
Pork.....	13,457,000	243,522	(*)	(*)	(*)	(*)
Bourbon.....	11,991,000	566,128	14,579,000	722,720	26,223,000	1,393,254
All other.....	39,065,000	974,914	89,268,000	1,181,957	78,692,000	1,058,653
Total.....	341,259,000	\$7,085,808	391,728,000	\$7,383,806	325,653,000	\$9,062,678
Bucked and split:						
Bourbon.....	8,332,000	\$452,374	8,775,000	\$485,912	11,069,000	\$691,580
West Indian.....	2,517,000	159,719	2,475,000	157,805	4,797,000	259,405
Split and wine.....	1,943,000	87,332	4,383,000	199,305	4,325,000	211,642
All other.....	2,306,000	52,631	2,596,000	67,083	4,861,000	114,677
Total.....	15,104,000	\$748,076	18,339,000	\$910,105	25,052,000	\$1,277,304
Hewed:						
French claret.....	5,329,000	\$425,265	6,864,000	\$521,355	8,581,000	\$763,715
Pipe.....	825,000	145,775	688,000	96,370	3,625,000	456,043
Trunk.....	76,000	41,660	217,000	131,940	565,000	292,615
All other.....	100,600	5,306	250,000	8,835	26,000	849
Total.....	6,321,000	\$618,569	8,019,000	\$758,590	12,737,000	\$1,513,283
Beer and ale:						
Beer, barrel.....	1,561,000	\$126,325	3,067,000	\$259,896	3,188,000	\$238,567
Beer, 1/2 barrel.....	6,217,000	315,943	6,446,000	376,432	7,250,000	411,619
Beer, 1/4 barrel.....	5,399,000	207,275	(*)	(*)	(*)	(*)
Beer, 1/8 barrel.....	1,655,000	18,528	(*)	(*)	(*)	(*)
Beer, 3/8 barrel.....	2,658,000	59,069	(*)	(*)	(*)	(*)
Ale, hoghead.....	145,000	16,295	284,000	37,735	143,000	22,540
All other.....	112,000	8,975	7,401,000	291,821	11,179,000	417,774
Total.....	16,547,000	\$749,529	17,194,000	\$956,884	21,760,000	\$1,089,900
Aggregate.....	20,691,201	\$3,716,296	29,515,072	\$4,397,148	27,692,994	\$6,864,485
Sawed:						
Oil and tie.....	9,172,039	\$1,531,983	10,290,137	\$1,955,070	13,919,411	\$2,814,973
Split and wine.....	2,297,596	737,004	2,274,331	768,968	2,667,708	974,114
Half barrel and keg.....	1,680,004	163,802	(*)	(*)	(*)	(*)
Bourbon.....	1,289,713	527,794	2,212,652	834,298	4,651,678	1,906,706
Pork.....	3,313,319	58,906	(*)	(*)	(*)	(*)
All other.....	4,902,932	515,374	4,966,415	626,192	4,590,112	672,945
Total.....	19,745,693	\$3,534,867	19,763,525	\$4,182,528	25,828,909	\$6,337,738
Beer and ale:						
Half barrel.....	342,735	\$79,983	251,945	\$78,176	700,737	\$200,652
Hoghead.....	91,050	32,700	177,544	90,239	241,154	116,149
All other.....	129	188	(*)	(*)	(*)	(*)
Total.....	521,573	77,558	282,058	46,145	922,194	179,946
Total.....	955,508	\$181,429	811,547	\$214,629	1,864,085	\$496,747

*Not shown separately.

Yellow Pine Manufacturers Meet.

At the annual convention of the Yellow Pine Manufacturers' Association at New Orleans last week the association voted that a tax of one cent per thousand feet be levied upon the output of the various mills for a period of one year for the purpose of waging an advertising campaign in behalf of the yellow pine interests. President J. Lewis Thompson called the meeting to order, making an address, in which he reviewed the lumber industry of the South and declared that the consumption and production of yellow pine during the year 1910 had surpassed all previous records. Secretary George K. Smith presented his report, which indicates that the output of the various mills during 1910 was nearly 10 per cent. over that of 1909, leaving the difference between cut lumber and shipments for 1910 about 1 per cent., showing that the stock on hand has increased 41,000,000 feet among 218 mills operated by members of the association. According to the report, the clearing-house records for the year past covers about 109 more mills than the comparative statement, and shows an excess cut over shipments in a production of over 5,000,000,000 feet of practically 100,000,000 feet. John L. Kaul of Birmingham discussed the subject of advertising and advocated the widest publicity for yellow pine products. A paper prepared by Charles S. Keith of St. Louis

was read by the secretary, and addresses were made by Charles E. Brower, secretary and treasurer of the national classification committee of lumber interests; A. Triessmann, Crossett, Ark.; William E. Barnes, St. Louis; Benjamin S. Woodhead, Beaumont; W. T. Whiteman, Houston; W. W. Warren, Fisher, La.; F. R. Gilchrist, Laurel, Miss., and others. The association also adopted a resolution endorsing New Orleans as the logical city for the Panama Exposition. Henry E. Hardtner, chief of the conservation bureau of Louisiana, addressed the convention and gave a detailed statement of the standing timber in Louisiana, estimating a standing count of 78,112,000,000 feet and an annual cut of 2,914,430,000 feet. Of the total he estimates that 42,553,500,000 feet is in pine, 6,214,000,000 feet in cypress, 14,468,000,000 feet in tupelo gum, 8,676,000,000 feet in oak and 6,197,000,000 feet in other species.

Mr. Hardtner also presented a resume of the State laws on conservation and explained what they stand for. The following officers and directors were elected:

President, J. Lewis Thompson, Houston, Tex.; vice-president, S. J. Carpenter, Winnfield, La.; treasurer, C. D. Johnson, St. Louis, Mo.; secretary, Geo. K. Smith, St. Louis, Mo.

Arkansas—Vice-president, W. T. Murray, Fordyce, Ark.; directors, Edw. Bower, Eagle Mills, Ark.; (one year), A.

Trieschman, Crossette, Ark.; John Boland, Thornton, Ark.; (two years), A. C. Ramsey, Nashville, Ark.; F. H. Hartshorne, Bigelow, Ark.; R. M. Johnston, Pine Bluff, Ark.; C. W. Neihuss, Wesson, Ark.; O. O. Axley, Warren, Ark.

Alabama—Vice-president, F. H. Lathrop, Birmingham, Ala.; directors, Joan L. Kaul, Birmingham, Ala.; (one year), W. D. Harrigan, Fulton, Ala.; (two years), J. C. McGowin, Chapman, Ala.; M. D. McClure, Wagar, Ala.; D. H. Marbury, Marbury, Ala.; E. L. More, River Falls.

Louisiana—Vice-president, H. H. Wheeler, Shreveport; directors, W. T. Warren, Fisher, La.; (one year), R. A. Long, Kansas City, Mo.; E. A. Frost, Shreveport, La.; C. E. Slagle, Clarks, La.; H. W. Rock, Lake Charles, La.; O. L. Bonway, Hammond, La.; W. C. Bowman, Kansas City, Mo.; J. W. Martin, Yellow Pine, La.; S. T. Woodring, Lake Charles, La.; S. T. Woodring, Lake Charles, La.; Geo. Geo. Lock, Westlake, La.; Geo. H. Boyd, Atlanta, La.; S. H. Fullerton, St. Louis, Mo.; Issac Stephenson, Jr., Ludington, La.

Texas—Vice-president, Ben S. Woodhead, Beaumont, Tex.; directors, J. M. West, Houston, Tex.; (one year), Lynch Davidson, Houston, Tex.; Hoxey Thompson, Houston, Tex.; F. S. Clark, Dallas, Tex.; (two years), A. W. Miller Galveston, Tex.; W. T. Whiteman, Caro, Tex.

Mississippi—Vice-president, F. R. Gilchrist, Laurel, Miss.; directors, J. J. White, McComb City, Miss.; (one year), T. L. O'Donnell, Sanford, Miss.; (two years), J. W. Flynn, Meehan Junction, Miss.; H. H. Cust, Arbo, Miss.; J. F. Wilder, Perkinson, Miss.; R. W. Hinton, Lumberton, Miss.

Missouri—Vice-president, J. H. Berkshire, Kansas City, Mo.; director (two years), J. B. White, Kansas City, Mo.

Oklahoma—Director (two years), J. H. Crawford, Oklahoma City, Okla.

Georgia—Vice-president, H. H. Tift, Tifton, Ga.; director (two years), N. V. Babcock, Babcock, Ga.

Florida—Vice-president, Edw. A. Hause, Century, Fla.; directors, J. C. Williams, Eleanor, Fla.; (one year), A. W. Raney, Century, Fla.; (two years), J. E. McLane, Noma, Fla.

At Large—H. H. Foster, Malvern, Ark.

Gulf Coast Lumber Exporters.

A meeting of the Gulf Coast Lumber Exporters' Association was held at New Orleans last week, at which it was voted that a special committee from the association be immediately sent abroad for the purpose of making a study of trade conditions. President E. P. Holmes of Gulfport presided at the meeting, with Secretary J. O. Elmer of Mobile and Treasurer C. E. Walden of Beaumont in attendance. It was decided to change the time of the annual convention from October to January, the exact date to be determined by the executive committee at its next meeting. Addresses were made by the following gentlemen: R. A. Long of the Long-Bell Lumber Co., Kansas City, Mo.; J. Lewis Thompson, president of the Yellow Pine Manufacturers' Association of Houston, Tex.; F. R. Gilchrist, Laurel, Miss., and I. H. Fetty of the Central Coal & Coke Co., Kansas City, Mo.

Georgia Forest Association.

The Georgia Forest Association held its annual meeting at Atlanta, Ga., last week. This association has been in existence for about two years, its object being to create sentiment for organized effort for the conservation of timber and forestry interests of Georgia. The presiding officer was William M. Howland. Prof. Alfred Akerman, professor of forestry in the University of Georgia, spoke on "Why Natural

Reproduction Is Better Than Planting." L. E. Rast read a paper on "Turpentine Farming," and Chancellor Barrow made an address on "The Sawmill as a Saving on the Farm."

With \$600,000 Capital Stock.

For the purpose of establishing and operating a plant to extract turpentine and manufacture by-products, the Standard Turpentine & Wood Pulp Co. of Macon, Ga., has incorporated with a capital stock of \$600,000. The process it will employ has been developed by B. F. A. Saylor of Rome, Ga., and is said to utilize waste wood for the extraction of turpentine, rosin, etc., leaving the residue in the form of pulp suitable for the manufacture of paper. It is stated that a definite location for the plant has not been determined, but that it will probably be established in South Georgia or Northwest Florida. Officers of the company are T. C. Parker, president; O. M. Grady, first vice president and general manager, and J. C. Odell of Rome, Ga., secretary and treasurer.

Big Deal in Florida Lands.

A big deal in timber lands which will probably mean the establishment of extensive lumber mills at or near Green Cove Springs, Fla., is reported to have been consummated by R. L. Dowling of Green Cove Springs. It is stated that the deal involves about 100,000 acres of timber lands, and it is understood that Mr. Dowling will continue the turpentine operations, besides establishing sawmills for the development of the timber. It is likely also that a railroad will be constructed for the purpose of hauling logs to the mills.

Secure Georgia Timber Tract.

A dispatch from Newnan, Ga., states that R. W. Freeman, B. T. Thompson, J. J. Keith, W. C. Wright and J. W. Stripling, all of Newnan, have purchased from Mrs. Gordon Lee a tract of 1000 acres of timber land near Newnan, the deal involving \$50,000. The property is said to be heavily timbered and purchasers are reported as intending to install sawmills to develop it.

To Establish Wood Distillation Plant.

A report states that B. L. Fitch of Rome, Ga.; J. F. Bailey and others are promoting the establishment of a plant at Savannah for the purpose of extracting and manufacturing turpentine, tar, charcoal and other products. It is understood that a site has been selected and construction work on the buildings will be started at once. The main building will be of wood, 55x128 feet, the equipment having already been ordered.

An executive session of the National Association of Hardwood Lumber Exporters was held at Memphis last week.

Confederate Memorial Institute.

The Confederate Memorial Association, J. Taylor Ellyson, president, Richmond, Va., has selected the design of Bissell & Sinkler of Philadelphia for its proposed institute. This structure will be 69x169 feet and 50 feet high, one story, containing 16 galleries grouped around a central hall. It will be of fireproof construction, having a face of Southern granite to the first floor line and Southern marble above the line, and the design is Doric. The estimated cost is \$150,000, and the association will proceed to arrange for construction. Messrs. Bissell & Sinkler won the first prize offered to architects, which is to furnish plans and supervise the construction. Messrs. Hewitt & Brown of Minneapolis won the second prize of \$400, while the \$200 prizes were awarded to Averill & Adams of Washington, Wilder & White and Dennison & Hirons of New York.

TEXTILES

[A complete record of new textile enterprises in the South will be found in the Construction Department.]

Castle Cotton Mills.

The Jasper Cotton Mills of Monticello, Ga., has changed name to the Castle Cotton Mills, increased capital stock from \$200,000 to \$1,000,000 and organized with William T. Lang of West Point, Ga., as president and general manager. This company will build a plant of 50,000 spinning spindles, 5000 twister spindles, 1200 looms, etc., driven by 5000 electrical horse-power furnished at 66,000 volts over the transmission lines of the Central of Georgia Power Co. of Macon, the wires being direct from the power-house to the mill's substation. The product will be a special line of fine fabrics for the domestic converting trade. The architect and engineer has been engaged, and all contracts are about to be closed. This enterprise is a consolidation of the Jasper Cotton Mills, whose organization was announced several months ago, and the Castle Cotton Mills, reported organized last week and outlined some months ago by the MANUFACTURERS RECORD. For the past year Mr. Laag has been planning this \$1,000,000 proposition, and has resigned the presidency of the Lang Manufacturing Co. of West Point in order to give it his entire attention.

Mt. Vernon Knitting Co.

The Mt. Vernon Knitting Co. of Baltimore has organized with Chas. V. Stinchum, president; H. C. Scott, vice-president, and George W. Fort, secretary-treasurer. This company was lately reported incorporated with \$20,000 capital stock. It will begin to manufacture about March 1 with five knitting machines and auxiliary equipment driven by electric power. Plant at Chestnut avenue and 36th street.

Anderson Companies Increase Capital

The Riverside Manufacturing Co. will increase capital stock from \$325,000 to \$401,250. This company now has 21,938 ring spindles for manufacturing warp and skein yarns. The Toxaway Mills will increase capital stock from \$225,000 to \$361,250. This company now has 17,168 ring spindles and 484 looms for manufacturing print cloth. Both companies are of Anderson, S. C.

Allgood Hosiery Mills.

The Allgood Hosiery Mills of Vaughan, N. C., has been incorporated with \$12,000 capital stock by M. F. Parker, A. C. Allgood and C. B. Vaughan.

The W. & J. Knox Net & Twine Co. of Baltimore has awarded contract for the erection of its addition recently announced. This addition will be 43x61 feet, two stories high, of brick and stone, with slag roof, costing \$6000.

Will Erect Cottonseed-Oil Mill.

T. N. Spurlock of Doerun, Ga., is the secretary of a company which will erect and operate a cottonseed-oil mill at Doerun next spring. The mill will have a capacity of 20 tons, and about \$4000 will be expended for the buildings and \$12,000 for equipment. The main building will be of brick, 36x64 feet, two stories high, while the seedhouse will be of frame construction, 50x100 feet, and the hullhouse of frame construction, 40x50 feet. Plans for the buildings will be furnished by the Burruss Engineering Co. of Atlanta. In addition to Mr. Spurlock, other promoters of the enterprise are J. B. Mills, J. G. S. Powell and I. F. Coleman, all of Doerun, and W. A. Hatcher of Putney, Ga.

MINING

To Mine Coal and Make Brick.

The Quinton Coal & Brick Co., main office Oklahoma City, will incorporate to develop coal lands and manufacture vitrified brick. The company will be capitalized at \$600,000, and it is understood will take over the holdings of the Quinton Coal Co. of Quinton, Okla., which include a coal mine in operation and 6000 acres of coal lands near Quinton, 28 miles northeast of McAlester, on the Fort Smith & Western Railroad. In addition to the coal deposits, it is said that the property contains an excellent grade of shale suitable for the manufacture of vitrified brick, and in order to utilize this the company will erect a brick plant at once. Among those interested in the enterprise are Dr. J. M. Postelle and E. J. Deu Pree of Oklahoma City, and H. C. Jarretson of Quinton.

To Develop Tennessee Lands.

C. E. Janes of Chattanooga, Tenn., has purchased the New England Company's 74,000 acres of iron and timber land in Dade county, Georgia, for \$74,000. He plans consolidating this land with other similar properties and thorough development in the future. Details are not now ready for announcement.

B. & O. Coal and Coke Tonnage.

The combined coal and coke tonnage of the Baltimore & Ohio Railroad for 11 months of 1910 aggregated 33,712,324 tons, as compared with 27,746,075 tons for 1909. The tonnage for 1910 included 28,779,022 tons of bituminous coal, 978,650 tons anthracite and 3,963,652 tons of coke.

PHOSPHATE

Secures Option on Phosphate Lands.

A dispatch from Tullahoma, Tenn., states that E. B. Blackman and associates have secured an option on 2000 acres of phosphate land near Tullahoma, and a company is being organized for the purpose of developing the property. An analysis of the deposits, it is said, shows 78.10 per cent. phosphoric acid in addition to nitrates. It is understood that a large fertilizer factory will be erected at Tullahoma to develop the deposits. The property also contains extensive deposits of marble, and Eastern capitalists are reported as negotiating with a view to establishing marble quarries.

Secures Big Acid Contract.

A report from New York states that the Tennessee Copper Co., 11 Broadway, New York, has closed a contract with the International Agricultural Corporation, 165 Broadway, New York, to supply the latter company with the Tennessee company's entire acid production for the next 10 years. The Tennessee Copper Co. operates at Ducktown, Tenn., and produces about 150,000 tons of acid annually, but it is understood that this output will be increased to 200,000 tons annually.

Phosphate Notes.

The Yorktown Chemical Works, Inc., Yorktown, Va., has incorporated with a capital stock of \$300,000 to manufacture fertilizers. Officers of the company are F. H. Johnson, president; F. P. Stone, vice-president, and C. L. Sauter, secretary and treasurer, all of New York city.

In 20 years, ending with 1908, there were 29,293 fatalities in coal mines in North America.

Construction Department

TO OUR READERS!

In order to follow up properly the Construction Department items, please bear in mind the following statements:

EXPLANATORY

The MANUFACTURERS RECORD seeks to verify the items reported in its Construction Department by full investigation. It is often impossible to do this before the item must be printed or else lose its value as news, and when this is necessary the statements are made as rumored or reported, and not as positive information. If our readers will note these points they will see the necessity of the discrimination. We are always glad to have our attention called to errors that may occur.

HOW TO ADDRESS

The name of one or more incorporators of a newly incorporated enterprise should always be shown on letter addressed to the official headquarters or to the town of the parties sought, as may be shown in the item. Sometimes a communication merely addressed in the corporate or official name of a newly established company or enterprise cannot be delivered by the postmaster. By following these general directions the postoffice will be enabled to deliver your mail promptly, although it is inevitable that some failure by the postal authorities to deliver mail to new concerns will occur.

WRITE PERSONAL LETTERS

In communicating with individuals and firms reported in these columns a letter written specifically about the matter reported will receive better and quicker attention than a circular.

"In correspondence relating to information published in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned."

The Daily Bulletin of the Manufacturers Record is published every business day in order to give the earliest possible news about new industrial, commercial, building, railroad and financial enterprises organized in the South and Southwest. It is invaluable to manufacturers, contractors, engineers and all others who want to get in touch at the earliest moment with new undertakings, or the enlargement of established enterprises. The subscription price is \$25 per year. On all advertising contracts in the Manufacturers Record for three months or longer a subscription for the contract period to the Daily Bulletin is included.

BRIDGES, CULVERTS, VIADUCTS

Ala., Mobile.—Board of Public Works will receive bids until February 16 for 300 feet of 3x5-foot concrete culverts. (See "Road and Street Work" and "Machinery Wanted.")

Fla., Fernandina.—Board of County Commissioners, W. T. Waas, chairman, contemplates construction of bridge across Nassau river dividing Nassau and Duval counties; bridge will connect through hard surface road between Fernandina and Jacksonville.

Ga., Augusta.—City Council will receive proposals until February 7 for proposed Beaver Dam ditch masonry, culvert and canal; plans, etc., on file; Nisbet Wingfield, City Engineer. (See "Machinery Wanted.")

Miss., New Augusta.—Perry County Board of Supervisors invites bids for repair of Wingate bridge on Leaf river damaged by flood.

Miss., Iuka.—J. F. Oaks, member of Board of Tishomingo County Supervisors, will receive bids until February 5 for construction of bridge across McNutt Mill Creek, Green & Hubbard Rd.; plans and specifications at office of Chancery Clerk.

Miss., Pascagoula.—Louisville & Nashville Railway will install gasoline power plants for drawbridges on New Orleans and Mobile division; Charles Marshall, superintendent.

Mo., Joplin City.—Council instructed J. B. Hodgdon, City Engineer, to prepare estimates on construction of concrete culverts over Willow Branch on Jackson Ave., between Eighth and Ninth Sts.; on Moffet Ave., between Sixth and Seventh Sts., and

on Joplin St., between Fifth and Sixth Sts.

Okla., Bartlesville.—Washington county will construct bridge 50 feet long, with 16-foot roadway, in Washington Township; bids opened January 21. Address County Commissioners.

Okla., Muskogee.—Muskogee County Commissioners (recently noted to have awarded contract for erection of 32 proposed bridges) are having new plans prepared for same by County Engineer Pitts, and will readvertise for bids for construction; cost about \$145,000.

S. C., Conway.—Building Commission, J. C. Spivey, secretary, will receive bids until February 16 for construction of steel bridge across Waccamaw River. (See "Machinery Wanted.")

Tenn., Chattanooga.—Hamilton county will issue \$250,000 of bonds to construct bridge across Tennessee river above Walnut St. bridge and \$300,000 to construct bridge west of Walnut St. bridge; C. E. James and associates will add \$150,000 to be expended equally in each bridge; Joe V. Williams, County Judge.

Tenn., Livingston.—Overton County Railroad will reorganize as Cincinnati & Nashville Railway; construction planned includes two steel bridges, one trestle and one tunnel; George A. Clark, receiver, 51 Noel Block, Nashville, Tenn.

Tenn., Memphis.—City plans construction of steel and reinforced bridge, by railway companies, on McLemore Ave.; J. H. Weatherford, City Engineer, has prepared plans.

Tenn., Memphis.—Speedway Land Co. awarded contract to Koehler Paving & Concrete Co., Memphis, for constructing bridge. (See "Road and Street Work.")

Tenn., Rogersville.—Hawkins County Commissioners authorized issuance of \$20,000 bridge warrants.

Tex., Houston.—City has plans for constructing Main St. viaduct to bridge Buffalo and White Oak Bayous; reinforced concrete; 1600 feet long, with paving of vitrified brick; Frank L. Dormant, consulting engineer. (Lately mentioned.)

Tex., San Antonio.—Bexar county will construct bridge on Blue Wing Road across San Antonio River; bids opened January 23; Thomas E. Ramsey, County Auditor.

Va., Roanoke.—Wasena Land Co., 314 National Bank Bldg., will construct steel bridge across river.

Va., Richmond.—Richmond & Henrico Railway will award contract January 30 for construction of steel viaduct 1250 feet long, connecting National Cemetery Rd. and Fulton; cost estimated at \$150,000; plans by F. W. Scarborough of Richmond. (Lately mentioned.)

CANNING AND PACKING PLANTS

La., Crowley.—J. B. Foley plans establishment of cannery with capacity for 200 acres of figs.

La., Gretna.—Swift & Co., Chicago, Ill., are reported to have awarded contract to Geo. J. Glover, New Orleans, La., for erection of three buildings; two stories; brick; mill construction; composition roof; cost \$30,000.

La., Crowley.—J. B. Foley will establish cannery with capacity for 200 acres of figs.

Md., Chestertown.—Wm. Numsen & Sons Company, 18 Light St., Baltimore, Md., will establish \$30,000 corn-packing plant if growers will guarantee supply of corn.

Miss., Meridian.—Cliff Williams and A. H. George are interested in establishment of packing plant.

Mo., St. Louis.—St. Louis Dressed Beef & Provision Co. will expend \$10,000 for improvements.

Tex., Artesian Wells.—La Salle County Preserving Co., recently reported incorporated with \$25,000 capital stock, will operate canning, pickling and preserving plant; factory erected; cost of machinery, \$6000; W. W. Boone, president; F. F. Harris, vice-president; Lucian E. Schilling, secretary-treasurer.

CLAYWORKING PLANTS

Md., Easton.—Bricks.—Easton Brick & Tile Manufacturing Co. incorporated with \$25,000 capital stock; Frank A. White, president and general manager; Edwin G. Cover, vice-president; William Reddie, secretary-treasurer.

Md., Copely.—Chesapeake & Ohio Clay Products Co. incorporated with \$75,000 capital

stock by Allen C. Clark, 605 F St. N. W.; Henry B. Simpson, Thomas Hampton and others, all of Washington, D. C.

N. C., Goldsboro.—Bricks.—Borden Brick & Tile Co. incorporated with \$50,000 capital stock by F. K. Borden, F. K. Borden, Jr., and F. B. Daniels.

Okla., Quinton.—Vitrified Bricks.—Quinton Coal & Brick Co. incorporated with \$600,000 capital stock by H. C. Jarretson and associates; will build plant to manufacture vitrified bricks; cost, \$16,000; general offices in Oklahoma City, Okla. (See "Coal Mines and Coke Ovens.")

Tex., Houston.—Bricks, etc.—George Gwilt of Vernon, B. C., is reported to establish plant to manufacture glazed work pressed brick, etc.

Tex., San Benito.—Brick and Tile.—Commercial Club is interested in establishment of brick and tile factory.

COAL MINES AND COKE OVENS

Ala., De Soto.—De Soto Coal Co. is, it is rumored, planning extensive improvements to cost \$200,000.

Ala., Sayre.—Sayre Mining & Manufacturing Co., I. F. Perkins, general manager, states company is not considering any further improvements. (Lately mentioned.)

Ky., Catlettsburg.—Mason Coal & Coke Co., Donald Clark, manager, Huntington, W. Va., will not develop coal property. (Recently noted.)

Ky., Sullivan.—Company has been organized by George Ruhl and John Rupp of Frostburg, Md.; Robert Duncan of Midlothian, Md., and others; will develop 525 acres of coal land.

Ky., Stearns.—Stearns Coal & Lumber Co. will operate old mines to full capacity; open new mine No. 11 with daily capacity of 500 tons coal; install wire-rope tramway to convey coal from mine to tipple, electric-motor-driven shaker screens, mining machinery, etc.; Justus Stearns of Ludington, Mich., is president. (Previously reported as to increase daily output of 1200 tons to 200 tons.)

Okla., Quinton.—Quinton Coal & Brick Co. incorporated with \$600,000 capital stock to acquire and develop Quinton Coal Co. properties; has 6000 acres coal and shale land; will develop thoroughly; erect vitrified brick plant costing \$16,000; incorporators, H. C. Jarretson (former owner of Quinton Coal Co.) of Quinton, J. M. Postelle and E. J. Deu Free of Oklahoma City, Okla.; general offices in Oklahoma City, Okla.

Tex., Newcastle.—Belknap Coal Co., J. J. Perkins, president, has purchased necessary machinery to develop coal mines recently noted.

CONCRETE AND CEMENT PLANTS

Ala., Red Bay.—Red Bay Concrete Manufacturing Co., E. Tiffin, president (recently reported organized with \$5000 capital stock to establish plant to manufacture concrete products), will erect building; construction by company; install machinery; address proposals to E. P. Auger, manager; daily capacity 50,000 bricks.

Tex., Houston.—Houston Brick & Tile Co. (recently reported incorporated under "Clayworking Plants"), C. R. Miner, secretary-manager, will erect plant and equip for manufacturing concrete-cement brick and tile; daily capacity, 55,000 bricks.

COTTON COMPRESSES AND GINS

Fla., McIntosh.—C. E. Bateman will erect warehouse and install cotton gins in connection with gins mill.

S. C., Summerton.—Summerton Mercantile Co. will rebuild cotton gin reported burned; loss \$10,000.

Tenn., Humboldt.—Warmath Bros. will erect three-stand gin and corn mill; plans not determined; contemplate operating by motor power. (Recently noted.)

Tenn., North Lone Oak, P. O. Cunningham.—Harrison Bros. will erect cotton gin; five gin stands, etc.

Tex., Lovelady.—George F. McCulloch will open bids August 1 for rebuilding cotton gin recently reported burned; 28x4 feet; cost of machinery, \$6000; will open machinery proposals May 30. (See "Machinery Wanted.")

Tex., Travis.—Travis Gin Co., recently reported incorporated with \$9000 capital stock, will continue established plant; daily capacity, 40 to 50 bales of cotton; O. E. Davi-

son, president; J. I. Rause, secretary; J. M. Kelly, treasurer.

COTTONSEED-OIL MILLS

Ga., Doerun.—F. N. Spurlock, J. B. Mills, James M. Massey and W. A. Hatcher are promoting establishment of cottonseed-oil mill; main building will be of brick; 36x64 feet; two stories; seed and hull house will be frame; 50x100 feet and 40x50 feet; cost \$4000; cost of machinery, \$12,000; daily capacity, 20 tons cottonseed; Burrus Engineering Co., Atlanta, Ga., is preparing plans.

Tex., Plainview.—Industrial Cotton Oil Co., general offices, New York, is reported contemplating establishment of cotton-oil mill.

DRAINAGE AND IRRIGATION

La., Lake Charles.—Thomas H. Means and Leslie W. Symes, 515 Mechanics' Institute Bldg., San Francisco, Cal. (recently noted to have purchased 300,000 acres of land in Cameron parish for reclamation purposes), has sold 150,000-acre tract to Chicago parties; plans for development of remaining 150,000 acres not determined.

Miss., Cleveland.—Board of Drainage Commissioners of Bolivar county will receive bids until February 16 for excavation of following drainage canals: Holmes Lake, 7.2 miles; Snake Creek, 2.1 miles; Mound Bayou, 8.7 miles; Jones Bayou Cut-off, .8 mile; Goose Lake Cut-off, 1.7 miles; probable cost, \$39,000; W. W. Boone, chief engineer, Northern Drainage District; L. H. Gaines, member of commission. (See "Machinery Wanted.")

Tex., Houston.—Missouri-Texas Land & Irrigation Co. chartered with \$1,000,000 capital stock by Henry L. Borden of Houston, H. P. Hilliard of St. Louis, Mo., and R. L. Betts of Austin, Tex.

Tex., San Benito.—San Benito Irrigated Land Co. will irrigate tract of 250 acres of land; capital stock, \$15,000; San Benito Land & Water Co. has contract for supplying irrigation; canal is built; no further construction necessary, except earth work; S. A. Robertson is manager. (Recently reported incorporated under "Land Developments.")

ELECTRIC LIGHT AND POWER

Ark., Hazen.—Hazen Power & Light Co. incorporated with \$25,000 capital stock.

Fla., Brooksville.—City awarded contract for machinery for larger electric-light plant; motive power with capacity for 400 lights; install additional arc lights. Address The Mayor.

Fla., Jacksonville.—Jacksonville Electric Co. (controlled by Stone & Webster Engineering Corporation, 147 Milk St., Boston, Mass.) will construct power plant and piers on Russell and Robinson estates (recently acquired); Arthur L. Negus, superintendent of construction for Stone & Webster Corporation, is making preliminary soundings along waterfront of property to secure data as to building of wharves to accommodate coal vessels bringing fuel to proposed power plant; Mr. Negus estimates that piers must be constructed about 600 feet out into water so as to obtain sufficient depth of water; reported that power-house will cost about \$450,000; Mr. Negus will be in charge of construction work, which will probably begin in March.

Ga., Mineral Bluff.—Pure Food Milling Co. is negotiating with Electric Light and Water Commission of Blue Ridge, Ga., for electric light and power; commission may expend \$2500 or more to construct transmission line.

Ky., Somerset.—Joseph H. Gibson and associates purchased properties and franchises of Somerset Water, Light & Traction Co. (See "Water-works.")

La., Many.—City plans construction of electric-light plant, water-works and ice factory. Address The Mayor.

Md., Thurmont.—Town Commissioners purchased electric-light and power plant from Citizens' Electric Light & Power Co. for \$19,846.72 and will operate.

Miss., Tupelo.—City contemplates voting on issuance of \$15,000 of bonds for improvements to electric-light plant, including installation of engine, dynamos and street wiring; D. W. Robins, Mayor.

Mo., Marionville.—Aurora Electric Light & Water Co. plans construction of electric plant. (See "Water-Works.")

Mo., Maysville.—Dekalb County Electric Light Co. incorporated with \$15,000 capital

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

stock by E. A. Bunton, W. F. Wingate and O. W. Iden.

N. C., Graham.—Alamance Power Co. Incorporated with \$300,000 capital stock by J. Harvey White and E. S. Parker, both of Graham, and F. L. Williamson of Burlington, N. C.

Tex., Bryan.—E. T. Lawler of New Orleans, La., proposes establishment of electric plant. (See "Flour, Feed and Meal Mills.")

Tex., Celina.—Celina Electric Light & Power Co. has been granted franchise for construction of electric-light plant.

Tex., Glen Rose.—Woodford M. Davis of Dallas, Tex., will build water-power-electric plant; construct dam across Paluxy River.

Tex., Madisonville.—C. C. Murray & Sons have franchise for construction of electric-light plant; will organize Madisonville Light & Power Co.

Tex., Marble Falls.—Colorado River Power Co. is, it is reported, having plans prepared for constructing another dam, and is contemplating third dam; now constructing water-power electrical plant previously detailed.

Va., Fredericksburg.—C. P. Burgwyn, president Rappahannock Power & Light Co., Richmond, Va., applied to City Council for electric-light franchise.

FERTILIZER FACTORIES

S. C., Batesburg.—Batesburg Cotton Oil Co. purchased and will install fertilizer mixer; initial output, 2000 to 3000 tons.

S. C., Great Falls.—Southern Power Co., Charlotte, N. C., has begun construction of extracting fertilizer plant of about 4000 horsepower capacity; cost \$125,000; no other details ready for publication. (Lately mentioned.)

S. C., North Augusta.—North Augusta Warehouse & Fertilizer Co., J. C. Lamar, president, will erect fertilizer plant and cotton warehouse; machinery purchased. (Recently reported incorporated with \$10,000 capital stock.)

Tenn., Tullahoma.—E. B. Blackman and associates will, it is reported, build fertilizer factory. (See "Mining.")

Va., Yorktown.—Yorktown Chemical Works chartered with \$300,000 capital stock; F. H. Johnson, president; F. P. Stone, vice-president; C. L. Sauter, secretary-treasurer, all of New York.

FLOUR, FEED AND MEAL MILLS

Ky., Cadiz.—A. P. White & Co. will erect mill with daily capacity of 150 barrels flour and elevator with capacity of 50,000 bushels grain; buildings of reinforced concrete; will construct water-power-electric plant to drive mill and elevator; dam of reinforced concrete; install electric motor for emergency power; will furnish electricity for other manufacturers and for lighting as well as for own use; want to contract for all construction and machinery, either as a whole or in part. (See "Machinery Wanted.")

N. C., Waxhaw.—Company organized with B. F. Price, president; G. H. Burgess, secretary-treasurer; W. C. Broom, manager; will establish corn roller mill; daily capacity 250 bushels meal; machinery ordered.

Okla., Muskogee.—Company organized by J. J. Keel and W. L. Keel of Bainville, Tex.; J. M. Hughes, C. J. Woolver and S. H. Criswell of Muskogee; will erect feed mill and grain elevator; daily capacity, 25 cars of feed; cost \$40,000; construction begun.

Tenn., Humboldt.—Warmath Bros. will erect flour mill and cotton gin. (See "Cotton Compresses and Gins.")

Tex., Bryan.—J. T. Lawler of New Orleans, La., proposes establishment of flour mill, with extra machinery for furnishing electricity to city; proposed daily output of mill, 250 barrels of flour.

Tex., Houston.—Structural Iron, etc.—Peden Iron & Steel Co. increased capital stock from \$500,000 to \$1,000,000 for extending trade and additional warehouse facilities; details not decided.

FOUNDRY AND MACHINE PLANTS

Ga., Savannah.—Sash Weights, etc.—Star Sash Weight & Foundry Co., W. Rogers Starr, president, has purchased plant of Seaboard Pipe Foundry Co., and will manufacture sash weights and grate bars; at present will not improve or enlarge plant; present daily output 10 tons of grate bars and sash weights; company manufactures its own equipment, and will later increase capacity to 20 tons. (Recently noted incorporated.)

Ga., Savannah.—Barrel Machinery.—Truckers' Crate & Barrel Co. has patented and will

manufacture ventilated and slack barrel machinery; capital stock \$300,000; W. B. Stillwell, president; J. F. O'Brien, vice-president; F. R. Howard, secretary; E. M. Brogden, treasurer; E. W. Robinson, manager; H. P. Faister, chief designer and constructor; company will organize subsidiary companies throughout South to manufacture barrels and use machinery patented and manufactured by company. (Previously reported incorporated under "Woodworking Plants.")

Ky., Louisville.—Machinery.—R. E. Harriman Machine Co., Clay and Ormsby Aves., recently reported incorporated with \$10,000 capital stock, will continue established plant; manufacture special and automatic machinery, dies, etc.; machinery and equipment mainly supplied; R. E. Harriman, president; Ward J. Goodwin, vice-president; T. A. Engel, secretary-treasurer. (See "Machinery Wanted.")

Md., Baltimore.—Blacksmithing.—John C. Raum & Sons, 303 S. Sharp St., awarded contract to Frederick Becker, 1529 S. Hanover St., Baltimore, for construction of blacksmith shop rear 407 S. Sharp St.; one story; 18x35 feet; brick; slag roof; cost \$2500.

Md., Frederick.—Iron Works.—Morris Iron Co. (recently reported incorporated with \$175,000 capital stock) organized with John Mitchell, Jr., president; Elmer P. Morris, vice-president and general manager; C. C. Biser, treasurer; W. T. S. Diven, superintendent; is merger of Elmer P. Morris Company of Elizabeth, N. J., and Frederick Iron Works; will treble size of plant; erect main building 375 feet long; more than 61,000 feet of floor space.

Mo., Carthage.—Stoves.—Model Stove & Manufacturing Co. incorporated with \$15,000 capital stock by W. L. Murphy, William Kitching and Victor Clinton.

N. C., Kinston.—Foundry, etc.—Kinston Iron & Mantel Works has purchased foundry plant from E. M. Hodges, and will continue operation.

Tenn., Chattanooga.—Foundry, etc.—Ross-Meehan Foundry Co. awarded contract to T. S. Moudy, Chamberlain Bldg., Chattanooga, for erection of foundry building; 125x221 feet; brick; concrete foundation; iron floor to cupola room; cost, \$20,000; plans by Adams & Alsop, Chattanooga. (Recently noted.)

Tex., Aransas Pass.—Boiler Works, etc.—Charles J. Stanzel, Brownwood, Tex., will establish foundry and machine shops and boiler works.

Tex., Houston.—Structural Steel.—Houston Structural Steel Co., Yale and Center Sts., will improve plant, erect new addition to office, install separate telephone system and increase capacity of plant to 100,000 tons per month.

Va., Richmond.—Machinery and Supplies.—J. L. Lindsay incorporated with \$50,000 capital stock; I. B. Lindsay, president; P. L. Lindsay, vice-president; S. L. Lindsay, secretary-treasurer.

W. Va., Wheeling.—Engines.—Carr-Hamilton Engine Co. incorporated with \$25,000 capital stock by W. M. Carr, Benjamin E. Hamilton, Jacob Loomis and others.

GAS AND OIL DEVELOPMENTS

Ark., Hot Springs.—Hot Springs Gas Co. incorporated with \$100,000 capital stock by William C. Fordyce (president), H. J. Lehman and Wm. A. Bextell.

Tex., Henderson.—Millville Oil Co., incorporated with \$30,000 capital stock (not \$25,000, as recently reported) by E. B. Alford and others, has placed order for machinery necessary in drilling oil wells; O. P. Boyanton of Henderson is engineer in charge.

West Virginia.—Southern Land & Leasing Co. incorporated with \$500,000 capital stock by Charles F. Jones of Philadelphia, Pa.; Luther Martin, E. B. Southworth, John W. Dunn and James McCormack of New York.

ICE AND COLD-STORAGE PLANTS

Ark., Little Rock.—Watson & Avon Company organized with \$150,000 capital stock; will install cold-storage plant; capacity, 200 carloads of fruit. (Previously noted.)

Ark., Little Rock.—Arkansas Cold Storage Co. organized with \$50,000 capital stock; will erect 35x130 foot cold-storage plant; two stories and basement; will install two 40-ton refrigerating machines; Tait-Nordmeyer Engineering Co., St. Louis, Mo., engineers in charge; E. Cornish is president. (Previously noted.)

Fla., Jacksonville.—City Ice Co. (recently noted as Independent Ice Co.), J. T. Butler, president, purchased Bours Bldg. on Davis St. and will remodel for factory; daily capacity, 100 tons of ice; also establish cold-

storage plant with about 100,000 cubic feet of refrigerating space.

Ga., Macon.—C. E. Newton & Bro. contemplate building ice and cold-storage plant. (See "Machinery Wanted.")

Ky., Somerset.—Joe H. Gibson purchased and will improve ice plant, etc., of Somerset Water, Light & Traction Co. (See "Water-works.")

La., Many.—City plans construction of ice factory, water-works and electric-light plant. Address The Mayor.

Md., Crisfield.—Consumers' Ice Co. is name of company to establish ice and cold-storage plant; will open bids February 10 for erection of building; ordinary construction; cost \$5000; cost of machinery (purchased), \$12,000; daily capacity, 23 tons of ice; James B. Tawes, president; C. A. Lockerman, vice-president; A. W. Tawes, secretary-treasurer. (Tawes & Gibson recently noted interested.)

Mo., Kansas City.—People's Ice & Storage Co. organized with \$300,000 capital stock; F. D. Whiting, president; acquired and will double plant of People's Ice, Storage & Fuel Co.; distilled water exclusively; present daily capacity, 400 tons of ice; will erect concrete barn for 250 horses.

Okla., El Reno.—Western Ice Co. will rebuild plant, install additional machinery and double capacity.

Okla., Sallisaw.—Sallisaw Ice & Fuel Co. will erect 100x41-foot building; fireproof construction; cost \$2500; cost of machinery \$15,000; daily capacity 20 tons of ice; S. W. Lane, president; N. W. Hines, vice-president; D. Padrick, secretary-treasurer. (Recently reported incorporated with \$20,000 capital stock.)

Tex., Goliad.—Goliad Water & Light Co. will establish ice plant and erect 35x75x16-foot building; brick; galvanized roof; day labor; cost of machinery (purchased) \$15,000. (Previously noted.)

Tex., Madisonville.—C. C. Murray & Sons contemplate establishment of ice plant.

W. Va., Clarksburg.—Sanitary Ice Co. (recently reported incorporated with \$75,000 capital stock) will erect 70x135-foot building and install 55-ton ice plant; M. E. Henderson, president; Nathan Knight, vice-president; Thomas Shaw, secretary; William Keys, treasurer.

LAND DEVELOPMENTS

Ala., Birmingham.—Rosencrant Realty & Development Co. incorporated with \$2000 capital stock; Roger W. Snyder, president and treasurer; Mrs. F. M. Snyder, vice-president; W. K. Monroe, secretary.

Ala., Robertsdale.—Chicago Planters Co. incorporated with \$10,000 capital stock by Wm. T. Bailey, Charles E. Willard, Edward Ford Johnson and others; cultivates tobacco.

Ark., Forrest City.—Mann Land & Improvement Co. incorporated with \$38,000 capital stock by J. R. Dale, R. H. T. Mann, E. L. Beck, G. H. Sibell and others.

Ark., Piggott.—Arkansas-Missouri Plantation Co. incorporated with \$30,000 capital stock by W. J. Ward, W. D. Leswell, J. D. Blakemore and others.

Fla., Fort Myers.—South Florida Realty & Investment Co. incorporated with \$50,000 capital stock; John T. Murphy, president, Helena, Mont.; Charles J. Stubbs, vice-president; Walter G. Langford, secretary-treasurer.

Fla., St. George's Island (not a postoffice). St. George Island Company, A. J. Smith, secretary, 1328 Candler Bldg., Atlanta, Ga., is proceeding with development of health resort on St. George's Island; S. Z. Ruff, Atlanta, Ga., is engineer in charge of landscape work; will soon be ready for bids for erection of cottages, hotel, etc. (Previously noted.)

Fla., West Palm Beach.—Sewall's Point Land Co. will develop land on west side of St. Lucie River for townsite; will subdivide, construct hard-surfaced roads and streets, install sewerage system, etc.

La., New Orleans.—Almeda Truck Garden & Development Co. incorporated with \$10,000 capital stock; Edouard E. Henriques, president; Joseph Tomsony, vice-president; Victor Lohel, treasurer; James E. Glisson, secretary.

Miss., Jonestown.—Jacobs Cotton Transplanting Co. incorporated with \$10,000 capital stock by A. C. Jacobs of Chicago, Ill.; W. B. Milam and J. W. Wise of Jonestown.

Miss., Yazoo City.—Yazoo City Development Co. incorporated with \$40,000 capital stock by T. H. Campbell, Robert Hector, W. H. Hughes and others.

Mo., Bransville.—Sunny Slope Orchard Co. incorporated with \$50,000 capital stock

by T. R. Brinkhauer, John T. Vanderpool, Geo. C. Dent and others.

Tenn., Chattanooga.—Chattanooga Estates Company is planned for organization with \$5,000,000 capital stock to develop 8000 acres land in Hamilton county, opposite Chattanooga; plans development for industrial purposes in connection with Durham Coal & Iron Co., whose organization and plans for \$10,000,000 enterprise were recently detailed; Hamilton county lands include about 14 miles river front; new company being formed by Chas. B. Eddy, president of Durham Company, 68 William St., New York; Hallgarten & Co., also of New York; C. E. James of Chattanooga and others interested in Durham company.

Tex., Dallas.—Mid-Texas Improvement Co. incorporated with \$3500 capital stock by John L. Spurlin, W. C. Connor and E. Levy.

Tex., Houston.—East Texas Development Co. incorporated with \$5000 capital stock by W. A. Moore, C. B. Granbury and J. W. Cannon.

Tex., Houston.—Gulf States Development Co., 1602 Carter Bldg., is proceeding with development of 2400 acres of orchard property in Brazoria county; capital stock, \$150,000; negotiating for additional property to increase holdings to 10,000 acres; will expend \$50,000 to \$75,000 on rain drainage and irrigation system; has closed contract sale with Co-operative Orange Orchard Co. for 2300 acres of developed orchards; J. R. Kersten, president; J. Arthur Baker, vice-president; F. C. Hubbell, secretary-treasurer. (Recently noted as Gulf Coast Development Co. See "Machinery Wanted.")

Tex., Port Lavaca.—Port Lavaca Orange Grove Co. incorporated with \$30,000 capital stock by Sigmund Livingston of Bloomington, Ill., and others.

Va., Leesburg.—Catoctin Orchard Co. incorporated with \$50,000 capital stock; Vincent T. Bly, president; Chloe C. Bly, secretary; both of Waynesboro, Va.

Va., Roanoke.—Patterson Orchard Co. incorporated with \$10,000 capital stock; P. H. Fitch, president, Roanoke; D. W. Patterson, vice-president, Hollins, Va.; Jos. T. Engleby, secretary-treasurer.

W. Va., Bluefield.—Northwestern Land & Fruit Co. incorporated with \$125,000 capital stock by J. Frank Maynard, S. M. Smith, E. L. Bowman and others.

W. Va., Huntington.—Du Pont Place Improvement & Development Co. organized with Geo. J. McComas president, Z. T. Vinson vice-president, W. A. Lucas secretary-treasurer; purchased 183½ acres of land and will develop.

W. Va., Parkersburg.—Bateson Land & Improvement Co. incorporated with \$50,000 capital stock by William Bateson, Geo. Hesse, Jr., both of Wheeling; Charles Showalter of Parkersburg and others.

LUMBER MANUFACTURING

Ala., Birmingham.—Pioneer Lumber & Manufacturing Co. has changed name to Pioneer Lumber & Creosoting Co. and increased capital stock from \$15,000 to \$30,000.

Ala., Marion.—Carolina Yellow Pine Co. increased capital stock from \$100,000 to \$150,000.

Ala., Mobile.—Wall-Hay-Wall Lumber Co., William J. Hay, president, increased capital stock from \$500,000 to \$750,000. (Recently mentioned.)

Ala., Selma.—Schuh-Miller Lumber Co. will install new machinery; contract awarded.

Fla., Green Cove Springs.—R. L. Dowling has, it is reported, purchased 100,000 acres Clay county timber land and will continue turpentine operations, construct railroad and build sawmills.

Fla., Jacksonville.—Dantzler-Williams Lumber Co. incorporated with \$75,000 capital stock; L. N. Dantzler, Biloxi, Miss., president; G. A. McLeod, Tampa, Fla., vice-president; J. L. Dantzler, Moss Point, Miss., secretary-treasurer.

Fla., Orlando.—A. L. Beck Lumber Co. will erect lumber manufacturing plant; 80x100 feet; mill construction; cost \$4000; day labor; cost of machinery (purchased), \$15,000.

Ga., Newnan.—R. W. Freeman, B. T. Thompson, J. J. Keith, W. C. Wright and J. W. Stripling purchased 1000 acres timber land at \$50,000; estimated to yield 2,000,000 feet lumber; will build sawmills.

Ky., Paducah.—Lucas Land & Lumber Co. purchased Paducah Veneer & Lumber Co. plant; will install additional new machinery.

Miss., Louisville.—Winston County Lumber Co. incorporated with \$10,000 capital stock by C. H. Wagner, B. F. Brucker and others.

La., Concordia Parish.—Farmer-Wren Land Co. (recently reported incorporated with \$100,000 capital stock and to have purchased

20,000 acres of land) does not plan development; D. F. Wren, president; G. E. Bowden, vice-president; T. L. Turner, secretary; Geo. E. Farmer, treasurer.

La., Franklinton.—River Lumber Co. organized with W. C. Lonnergan, president; has sawmill with cutting capacity of 35,000 feet per day, and contemplates adding planing mill.

Md., Baltimore.—Maryland Lumber Co., 222 Forrest St., purchased site at 127-133 East St. for fireproof addition to plant.

Mo., Maryville.—Curfman Lumber Co., previously reported incorporated with \$25,000 capital stock, has elected E. C. Curfman president and treasurer, Roy J. Curfman vice-president and secretary; will not manufacture.

N. C., Clinton.—Babeck Lumber Co. incorporated with \$10,000 capital stock by W. B. Babeck and others.

N. C., Marshall.—Madison Timber Co. incorporated with \$10,000 capital stock by Guy V. Roberts, J. H. White and G. W. Cole.

W. Va., Petersburg.—Petersburg Lumber Co., recently reported incorporated with \$25,000 capital stock, has elected C. C. Martin president, E. E. Font vice-president, both of Laurel Dale, W. Va., and Luther Stafford, secretary-treasurer, Keyser, W. Va.

METAL-WORKING PLANTS

Ark., Little Rock.—Tin Cans.—W. G. McKean of DeQueen, Ark., proposes establishment of plant to manufacture fruit and vegetable cans.

Ky., Louisville.—Wire and Iron.—Kentucky Wire & Iron Co. incorporated with \$20,000 capital stock by A. L. Ducker, J. A. Ducker and H. B. Fleece.

MINING

Ala., Rock Run.—Iron.—Bass Foundry & Machine Co. has leased Grady brown iron-ore mines from Cedartown Iron Co. and will develop.

Ark., Nashville.—Gem Mining Co. incorporated with \$10,000 capital stock by Martin Walsh (president), H. C. Anderson, A. B. Clark and W. P. Williams.

Ga., Dade County.—Iron, etc.—O. F. Jaues, Chattanooga, Tenn., purchased New England Co.'s 15,000 acres iron and timber lands for \$74,000; proposes consolidation with other properties and thorough development in future by mining iron, manufacturing lumber, etc.; details not ready for publication.

La., Leesville.—Gold, etc.—Big Four Mining Co. of Louisiana incorporated with \$100,000 capital stock to develop gold, silver and lead deposits near Leesville.

Mo., Joplin.—Lead and Zinc.—Red Brush Mining Co. incorporated with \$25,000 capital stock; will develop 160 acres of lead and zinc deposits; daily capacity, five tons; mill erected; R. F. Glenn, president; R. S. Hagar, vice-president; G. L. Larkin, secretary-treasurer.

Mo., Joplin.—Zinc.—Powderhead Mining Co. organized by Sam Carnahan, H. M. Cale, Harvey Cale and others; leased portion of Dick Prigmore's tract and will develop zinc silicate or calamine deposits.

Mo., St. Louis.—Quarry.—Brockschmitt Quarry & Construction Co. incorporated with \$200 capital stock by Edward Brockschmitt, Thos. M. O'Gorman and others.

Tenn., Tullahoma.—Phosphate.—E. B. Blackman and associates have, it is reported, purchased and will develop 2000 acres phosphate land and build fertilizer factory.

Tenn., Tullahoma.—Marble.—Eastern parties are, it is reported, negotiating to develop marble deposits and build marble works on land owned by E. B. Blackman and associates.

W. Va., Hinton.—Sand.—Zenith Sand Co. incorporated with \$100,000 capital stock by Geo. O. Queensberry, D. E. Lahoy and others.

W. Va., Hinton.—Sand.—Zenith Sand Co. incorporated with \$100,000 capital stock by Geo. O. Queensberry, D. E. Lahoy and others.

MISCELLANEOUS CONSTRUCTION

Fla., Key West.—Quay Wall.—Government, R. C. Holliday, chief of Bureau of Yards and Docks, Washington, D. C., will expend \$110,000 to erect quay wall; work consists of reinforced-concrete pier deck 60x130 feet supported by 45-foot concrete piles; contract recently noted awarded to Hennebique Construction Co., 1170 Broadway, New York.

Ga., Savannah.—Slip.—Seaboard Air Line Railway, W. L. Seddon, chief engineer, Portsmouth, Va., will, it is reported, extend western slip 600 feet, making its total length 1700 feet; estimated cost of extension, \$250,000.

Ky., Ashland.—Lock and Dam.—H. J. Jervy, major, engineers, U. S. Engineer Office, Cincinnati, O., will receive bids until February 20 for construction of lock and dam No. 29, Ohio river. (See "Machinery Wanted.")

La., New Orleans.—Shed.—Port Commissioners will receive bids until February 21 for erection of structural steel and cast-iron for William A. Kernaghan shed; plans by J. F. Coleman & Co. (See "Machinery Wanted.")

Md., Baltimore.—Channel.—Harbor Board decided to widen channel in upper harbor for 250 feet south of present channel, improvement to extend between Piers 2 and 5 of new system; Oscar F. Lackey, Harbor Engineer, City Hall.

Mo., Cape Girardeau.—Seawall.—St. Louis & San Francisco Railroad Co., F. G. Jonah, chief engineer of construction, St. Louis, Mo., will not for several years begin construction of seawall recently noted.

Tex., Houston.—Wharves.—International & Great Northern Railway awarded contract to C. G. Patton of Houston for erection of wharves and warehouses; wharves, 400 feet; warehouse, 50x500 feet; estimated cost, \$50,000.

Tex., Port Arthur.—Pleasure Pier.—John M. Gates and others will soon begin construction of proposed pleasure pier; causeway wide enough for street-car track, automobile run and foot passage will extend 2000 feet into lake, with island 700 feet square at end; cost \$150,000.

Va., Portsmouth.—Bulkhead.—E. Cross & Son Co. of Portsmouth has contract for construction of 1300 feet of bulkhead work along front of the Portsmouth Company's tract; length of bulkhead may be increased to 3000 feet.

MISCELLANEOUS ENTERPRISES

Ala., Huntsville.—Oil-distributing Plant.—The Texas Company, Houston, Tex., is reported to establish plant; cost \$50,000.

Ala., Mobile.—Equipment.—Gulf City Equipment Co. incorporated with \$10,000 capital stock by A. L. Gould, J. M. Gould and J. W. Tharp.

Ark., Imboden.—Books, etc.—Liberal Baptist Book & Tract Co. organized; W. T. Shofitt, president; J. F. Cates, vice-president; C. P. Fender, secretary-treasurer.

Fla., Jacksonville.—Distributing Plant.—The Texas Co., Houston, Tex., contemplates, it is reported, establishment of distributing plant.

D. C., Washington.—Yachts, etc.—National Capital Yacht Co. incorporated with \$15,000 capital stock; Benjamin F. Edwards, president; Frank Fuller, secretary-treasurer, both of Munsey Bldg.

Ga., Columbus.—Distributing Plant.—The Texas Company, Houston, Tex., will, it is reported, erect building and establish distributing plant; also reported contemplating similar plants at Jacksonville, Fla., Savannah and Macon, Ga.

Ga., Macon.—Distributing Plant.—The Texas Company, Houston, Tex., will, it is reported, establish distributing plant.

Ga., Savannah.—Navigation.—Forest City Navigation Co. incorporated with \$54,000 capital stock by Joseph F. O'Brien, John J. Raders, John F. Paulsen and others.

Ga., Savannah.—Distributing Plant.—The Texas Company, Houston, Tex., is reported as contemplating establishment of distributing plant.

Ky., Lexington.—Garage.—Phoenix Motor Car Co. will remodel portion of garage recently noted leased by T. B. Dewhurst; addition 127x40 feet; fireproof construction; gas lighting; cost \$250; architect not selected. Address T. B. Dewhurst for further information.

Ky., Louisville.—Printery.—Commercial Printing, Binding & Lithographing Co. incorporated with \$10,000 capital stock by A. E. Meffert, Wm. E. Luckert and others.

Ky., Louisville.—Contracting.—Charles F. Fitch Co. incorporated with \$10,000 capital stock by Charles F. Fitch, Fillmore Tyson, E. J. O'Connell and A. P. Noltemeyer.

La., New Orleans.—Automobiles.—Imperial Motor Car Co., recently reported incorporated with \$5000 capital stock by W. E. Wisby, James Malochee and H. J. Malochee, will be agents for motor cars manufactured by Imperial Automobile Co., Jackson, Mich.

Md., Baltimore.—Stevedores.—Chesapeake Stevedore Co. incorporated by William H. Jamison, Charles A. Anderson, 512 Chamber of Commerce Bldg., and others.

Md., Baltimore.—Taxicabs.—Taxicab Co., 413 N. Howard St., increased capital stock from \$50,000 to \$75,000.

Md., Baltimore.—Painting, etc.—L. F. Johnson Co. incorporated with \$5000 capital stock by Littleton F. Johnson, Sr., 406 N. Howard St.; Littleton F. Johnson, Jr., and William S. Isaacs.

Md., Baltimore.—Automobiles.—Auto Co. of Maryland incorporated by Robert M. Stein, Lee E. Hartman, 1003 Union Trust Bldg., and L. Edwin Goldman, 1003 Union Trust Bldg.

Md., Baltimore.—General Supplies.—Chesapeake Supply Co. incorporated with \$10,000 capital stock by Wm. D. Rock, Philadelphia, Pa.; Joseph L. Cassilly, 1814 Harford Ave., Baltimore, and others.

Md., Salisbury.—Publishing.—William Cooper and Mark Cooper will erect three-story building, portion of which will be occupied by Salisbury Advertiser. (See "Bank and Office Buildings.")

Md., White Hall.—Publishing.—White Hall Publishing Co. organized with Charles H. Wise president, Wm. M. King vice-president, John F. Wiley secretary, W. Evans Anderson treasurer, manager and editor; will publish Baltimore County Press and establish job printery.

Mo., Jefferson City.—Taxicabs.—Jefferson City Taxicab Co. incorporated with \$3000 capital stock by E. S. Austin, Julius Tanner and Louis Tanner.

Mo., Kansas City.—Hardware.—Ernst Steoltzing Hardware Co. incorporated with \$25,000 capital stock by E. F. Steoltzing, Martha Steoltzing and A. S. Nelson.

Mo., Kansas City.—Construction.—Spitcaufsky & Wagner Construction Co. organized by John S. Spitcaufsky and G. A. Wagner.

Mo., St. Joseph.—Seeds.—Faber Seed Co. incorporated with \$15,000 capital stock by James B. Faber, William P. Graham and Thos. P. Graham.

Mo., St. Louis.—Automobile Supplies, etc.—Charles Trembley awarded contracts for erection of automobile salesroom and supply house; 70x80 feet; steam heat; cost \$10,000; construction begun.

Mo., St. Louis.—Construction.—Hannan & Hickey Bros. Construction Co. incorporated with \$50,000 capital stock by Patrick J. Hannan, John P. Daniel, Daniel P. Hickey and others.

N. C., Charlotte.—Steam Laundry.—Charlotte Steam Laundry has plans by Louis H. Ashby of Charlotte for two-story brick and stone laundry building; 156x100 feet, with an addition in rear 60x90 feet; concrete foundation; reinforced concrete floors; steel girders and columns; composition roof; steam heat; cost \$30,000; bids opened January 26.

N. C., Durham.—Printery.—Seeman Printery incorporated with \$30,000 capital stock by H. E. Seeman, E. A. Seeman and W. E. Seeman; will continue established plant.

N. C., Maxton.—Supplies.—Maxton Supply Co. incorporated with \$25,000 capital stock by J. W. McQueen, J. A. McQueen and H. S. McCallum.

Okla., Muskogee.—Grain Elevator.—Company organized by J. M. Hughes and others; will establish grain elevator. (See "Flour, Feed and Meal Mills.")

Okla., Muskogee.—Vulcanizing Plant.—Muskogee Vulcanizing Co., 139 S. 3d St., organized by C. F. McKee, Arthur Snodgrass and O. W. Lawrence.

Okla., Muskogee.—Garbage Disposal.—City plans expending \$35,000 for construction of garbage-disposal plant; Alexander Potter, consulting engineer, New York.

Okla., Tahlequah.—Game and Fish Preserves.—Tablequah Scientific & Educational Game and Fish Association organized; will acquire 5000 to 6000 acres of land on Illinois river and stock with elk and deer, black bears and other fish; B. F. Flite, president, Muskogee, Okla.; M. A. McSpadden, vice-president; J. B. Moore, secretary-treasurer, both of Tahlequah.

Okla., Tulsa.—Distributing Plant.—Prairie Oil & Gas Co., Independence, Kans., is reported to establish distributing plant; erect two buildings; 60x200 feet and 60x100 feet; brick and concrete; also smaller storage-houses.

S. C., Chesterfield.—Hardware.—Moore Hardware Co. incorporated by A. M. Moore, R. Armfield and E. Armfield.

Tenn., Chattanooga.—Vulcanizing Plant.—Chattanooga Vulcanizing & Rubber Co. will establish plant on Broad St. to replace present structure; will install new equipment and increase facilities.

Tex., Goliad.—Laundry.—Goliad Steam Laundry is name of company recently noted organized with \$2500 capital stock by G. R. Renfro and J. W. O'Bannon; will open bids March 1 for erection of building; ordinary construction; machinery will cost \$1250. (See "Machinery Wanted.")

Tex., Houston.—Engraving Plant.—Star Engraving Co., 508½ Travis St., recently reported incorporated with \$6000 capital stock, will operate photo-engraving plant; install cam-

eras and necessary machinery; George W. Parke, president; Martin Lindhout, vice-president; Frank P. Waltman, secretary-treasurer.

Tex., Lockhart.—Garage.—Lea Beaty awarded contract for erection of brick garage.

Tex., Marlin.—Crematory.—City awarded contract for erection of crematory. Address The Mayor.

Tex., Paris.—Publishing.—Advocate Publishing Co. will continue operation of plant purchased from W. N. Furrey & Sons (not W. N. Turrey & Sons, as recently incorrectly reported); W. N. Furrey is president.

Va., Alexandria.—Ferry Line.—Washington & Alexandria Ferry Co. incorporated with \$10,000 capital stock; will operate ferry between Washington, D. C., and Alexandria.

W. Va., Bluefield.—Printery.—Laird Printing Co. incorporated with \$5000 capital stock by J. W. Laird, Robert L. Thompson, J. R. Laird and others.

W. Va., Fairmont.—Hardware.—J. L. Hall Hardware Co. incorporated with \$25,000 capital stock by J. L. Hall, Ross Martin, Earl Dancer and others.

W. Va., Keyser.—Steam Laundry.—Home Steam Laundry incorporated with \$5000 capital stock by F. M. House, C. K. Devries, T. D. Lepe and others.

W. Va., Keyser.—Steam Laundry.—Home Steam Laundry incorporated with \$5000 capital stock by F. M. House, C. K. Devries, F. R. Lepe and others.

W. Va., Wheeling.—Engineering.—Carr-Hamilton Engineering Co. incorporated with \$25,000 capital stock by W. M. Carr, Ben E. Hamilton, Jacob Loomis and others.

MISCELLANEOUS FACTORIES

Ala., Birmingham.—Disinfectants.—Standard Disinfectant Co. incorporated with \$12,500 capital stock; A. F. Stubbs, president and treasurer; L. P. Hill, vice-president; L. Stubbs, secretary.

Ala., Birmingham.—Automobiles.—Great Southern Automobile Co. will increase capital stock from \$100,000 to \$500,000 and enlarge plant; has plans for additions to be equipped for painting, trimming, complete finishing, etc.

Ark., Benton.—Vinegar, Cider, etc.—Southern Fruit Products Co. incorporated with \$100,000 capital stock; will manufacture cider, vinegar and carbonated drinks.

Ark., Helena.—Boats.—Helena Drydocks & Shipbuilding Co. incorporated with \$30,000 capital stock by J. M. Scruggs of Memphis, Tenn.; F. F. Kitchen, N. Smith and others; Mr. Scruggs recently noted to take over Helena Shipyards & Drydock Co. and Helena & Glendale Ferry Co.

Ark., Stuttgart.—Rice Mill.—American Mill & Warehouse Co. organized with \$75,000 capital stock; Philip Reinsch, president, J. A. Joerg, first vice-president; J. C. Harris, second vice-president; A. A. Tindall, secretary-treasurer; Fred D. Gibson, business manager; plans construction of rice mill and warehouse.

D. C., Washington.—Bottling.—A. G. Hermann, 750-54 10th St. S. E., is having plans prepared by C. W. Webb, Warner Bldg., Washington, for three-story brick building on 10th St. S. E.

Fla., Lake Butler.—Turpentine.—Southern Turpentine Co. will erect annex to double capacity of plant.

Fla., Tampa.—Cigars.—Salvador Suarez Co. incorporated with \$25,000 capital stock; L. G. Beach, president; Lamar Rankin, vice-president and treasurer; R. H. Hibbard, secretary.

Ga., Gainesville.—Harness.—Gainesville Harness Co. is name of company to operate harness factory; has leased 36x120-foot building and purchased machinery. (J. T. Chamblee and D. S. Barrett previously noted interested.)

Ga., Rome.—Beverages.—Nova-Kola Bottling Co. incorporated with \$10,000 capital stock by J. C. Porter, Fred Averett and others.

Ga., Macon.—Wood-pulp Products.—Southern Turpentine & Wood Pulp Co. chartered with \$600,000 capital stock to establish plants for manufacturing turpentine, rosin, wood-pulp products generally, etc., using patented process of B. F. A. Saylor of Rome, Ga.; locate principal plant in South Georgia or Northwest Florida; president, T. C. Parker; vice-president and general manager, O. M. Grady, both of Macon; secretary-treasurer, J. C. Odell of Rome.

Ga., Macon.—Beverages.—Bludwine Bottling Co. chartered with \$25,000 capital stock by Fred E. Boston, T. M. Kern, both of Macon, and W. H. Shelton of Athens, Ga.

Ga., Savannah.—Turpentine, etc.—J. F. Bailey, B. L. Fitch of Rome, Ga., and others

leased site, will erect main building (wood construction, 5x128 feet) and other buildings and equip for manufacturing turpentine, tar, charcoal, etc., from pine trees; machinery purchased; plans doubling capacity.

Ky., Louisville—Candy.—Continental Candy Co., recently reported incorporated with \$3000 capital stock, will operate candy factory; Richard Bakrow, president; E. Bakrow, secretary-treasurer.

Ky., Paducah—Carbureters.—Lucas-Wallace Manufacturing Co. organized by Harry Wallace and Frank Wallace; will manufacture patented carburetor for gasoline engines.

La., Mandeville—Creamery.—Mandeville Creamery & Manufacturing Co. awarded contract to W. T. Newman, Mandeville, for erection of creamery; lumber and machinery purchased.

La., New Orleans—Bakery.—Adams Baking Co. incorporated with \$25,000 capital stock.

La., New Orleans—Cattle Guards.—American Cattle Guard Co., 712 Whitney-Central Bldg., contemplates installing molding plant to manufacture Parker cattle guard. (See "Machinery Wanted.")

La., New Orleans—Washboards.—Self-Soap-Ing Washboard & Manufacturing Co. chartered with \$100,000 capital stock by Henry C. Hornung, W. A. Gastrock, E. P. Vauthier and others.

La., New Orleans—Steel Slat Conveyors.—Success Steel Slat Conveyor Co. (recently reported incorporated with \$750,000 capital stock under "Iron and Steel Plants") organized with H. W. Hille president, W. J. Turnbull vice-president, L. Levedan secretary-treasurer; will manufacture patented mechanical device for loading and unloading boats, etc.

La., New Orleans—Lubricating Oil.—R. E. Jensen, representing Chicago (Ill.) capitalists, plans establishment of plant to manufacture automobile, gun and machine oil; cost \$50,000; is having plans prepared for building.

La., New Orleans—Cattle Guards.—American Cattle Guard Co., Ltd., incorporated with \$100,000 capital stock; J. B. Paul, president; C. I. Dick, vice-president; Jules A. L'Hemecourt, secretary-treasurer.

La., New Orleans—Wireless Telegraph Apparatus.—Falk McMahon Wireless Telegraph & Telephone Co. will establish plant to manufacture patented wireless telegraph machine invented by Mr. Falk; will erect \$10,000 fireproof building and install machinery; P. J. McMahon, president; H. L. Falk, vice-president; W. F. Pullen, secretary; John Prendergast, treasurer. (Recently noted to be organized by Hilbert Falk and others.)

Md., Baltimore—Gypsum Blocks.—Niagara Gypsum Block Co. incorporated with \$30,000 capital stock by Littleton F. Johnson, Sr., 406 N. Howard St., Littleton F. Johnson, Jr., and Edward Watters; will erect warehouse.

Md., Baltimore—Fayette Manufacturing Co., E. T. Peppier, president, 1302 Harford Ave., increased capital stock from \$5000 to \$10,000.

Md., Baltimore—Brooms.—Atlantic Broom Co., 2d and Toone Sts., changed name to Atlantic Southwestern Broom Co. and increased capital stock to \$25,000.

Md., Baltimore—Locking Devices.—Universal Safety Elevator Locking Device Co., 15 East Fayette St., increased capital stock from \$8000 to \$10,000.

Md., Cumberland—Glass Moulds.—Potomac Mould and Machine Co. organized to manufacture moulds for glass factories; will erect 2x350-foot building; frame; iron covered; cost of machinery and building, \$2500; two figure moulds per weekly capacity in addition to snaps and paste moulds.

Md., Hagerstown—Leggings.—Hagerstown Legging Co., Lewis T. Byson, president, has leased building and will establish plant to manufacture canvas and leather leggings. (Incorporated with \$50,000 capital stock, not \$30,000 as recently incorrectly reported.)

Miss., Cleveland—Bakery.—F. Slaughter of Memphis, Tenn., leased building now under construction and will install machinery for bakery.

Miss., Greenville—Hoops.—Creston Hoop Co. incorporated with \$30,000 capital stock; will erect \$10,000 building; mill construction; J. O. Stayton is manager and engineer in charge of construction; cost of machinery, \$15,000; J. M. Peel, president; W. S. Peel, vice-president; J. M. Elches, secretary-treasurer.

Miss., Laurel—Gas Plant.—J. T. Pullen of Jackson, Miss., applied for franchise to establish gas plant.

Miss., Moss Point—Gas Plant.—F. L. Brown of Chicago, Ill., proposes establishment of gas plant.

Mo., Kansas City—Hatchers.—Handy Hatcher Co. incorporated with \$10,000 capital stock by H. E. Moses, W. A. Moses and S. E. Moses.

Mo., Kansas City—Soap, Tooth Powder, etc.—United Drug Co. of Boston, Mass. plans establishment of \$500,000 plant to manufacture toilet articles, soap, etc.; J. W. Merrill proposes to erect nine-story reinforced concrete building to cost \$250,000 and lease to company, with option to buy.

Mo., St. Louis—Distillery.—Phoenix Distillery Co. incorporated with \$12,000 capital stock by M. D. Gross, Jacob Gruenbaum and others.

Mo., St. Louis—H. N. Lincoln of Dallas, Tex., will erect factory building.

Mo., St. Louis—Ice Cream.—National Ice Cream Co. incorporated with \$10,000 capital stock by Herman Horowitz, Edward Beech-told and others.

Mo., St. Louis—Dental Laboratory.—Berry Dental Laboratory Co. incorporated with \$20,000 capital stock by J. C. Schwartz, E. M. Schwartz and W. W. Heinrich.

Mo., St. Louis—Electric Fixtures.—International Electric Fixture & Contracting Co. incorporated with \$10,000 capital stock by Oliver S. Hiras, Paul Brown, Jr., and Robert Holmes.

N. C., Charlotte—Gas Plant.—Charlotte Gas Co. (auxiliary of Southern Power Co.) plans extension of gas mains to Elizabeth and Piedmont.

N. C., Durham—Tying Machines.—Byrd Manufacturing Co. will enlarge plant; plans increasing capacity, etc.

N. C., Greensboro—Trace Locks.—Crutchfield Trace Lock Co. incorporated with \$100,000 capital stock by J. C. Crutchfield, C. M. Coley and John A. Young.

Okla., Ardmore—Creamery.—H. G. Liebman of Sulphur, Okla., will establish creamery.

Okla., Muskogee—Agricultural Implements.—Eagle Manufacturing Co. of Kansas City, Mo., has not completed positive arrangements for establishment of plant to manufacture agricultural implements. (Recently noted.)

Okla., Oklahoma City—Bakery.—W. E. Flightmaster, 330 W. 10th St., will increase capacity of plant from 3000 to 6000 loaves per 24 hours; erect wing, install three 12x14-foot ovens, enlarge floor space of bakery proper 100 feet, etc.; cost of improvements, \$6000.

S. C., Charleston—Soap.—Carolina Soap Co. incorporated with \$25,000 capital stock by J. Helper, I. Ginsberg, J. Blustein and others.

Tenn., Chattanooga—Railway Connectors.—Brown Automatic Connector Co. incorporated with \$50,000 capital stock; W. H. Meacham, president; A. W. Boyd, vice-president; A. L. Kirkpatrick, treasurer; M. A. Brown, general manager; E. L. Whitaker, secretary; will manufacture patented device for connecting railroad cars and air signals.

Tenn., Chattanooga—Wallpaper.—Gordon Wallpaper Co. incorporated with \$10,000 capital stock by J. E. Gordon, A. W. Morris, J. M. Allen, Charles Dagley and J. W. Eastman.

Tenn., Memphis—Timetests.—Auto Time-test Co. incorporated with \$3000 capital stock by J. H. Wright, Percy Galbreath, E. L. Durburt and others.

Tex., Cisco—Creamery.—Cisco Creamery Co., A. H. Johnson, president, will operate creamery; building erected and machinery purchased. (Recently noted.)

Tex., Childress.—Martin Coyne purchased machinery and will establish broom factory.

Tex., Clifton.—W. S. Stevens of Cleburne, Tex., will erect bottling plant.

Tex., Devine—Mattresses, Brooms, etc.—Joe Sauter will enlarge mattress factory and establish broom factory.

Tex., Electra—Bakery.—J. F. Mallone will erect bakery and install brick oven.

Tex., Greenville—Brooms.—Greenville Broom Factory increased capital stock from \$2000 to \$5000.

Tex., Houston—Metallic Hose.—Dixon Flexible Hose Co. incorporated with \$200,000 capital stock by W. M. Schultz (inventor), Geo. M. Dickson, Henry M. Dickson and others.

Tex., Marfa—Wax.—Texas Candelilla Wax Co. incorporated with \$25,000 capital stock by F. S. Breeding, S. W. Wooley and W. T. Murphy.

Tex., Mineral Wells—Water Gas.—Palo Pinto Gas, Light, Heat & Power Co., J. D. Cranford, president, will operate water-gas plant; building erected and machinery purchased; R. E. Baughman is engineer in charge. (Recently noted.)

Tex., Plainview—Creamery.—A. C. Hinn plans, it is reported, establishment of \$10,000 creamery.

Tex., Waskom—Cheese.—P. B. Barlow will install machinery to manufacture cheese; erect 22x40-foot building; one story; ordinary construction; daily capacity, 22 pounds cheese.

Va., Portsmouth—Bone Meal, Grease, etc.—Portsmouth Tallow Co., 1000 Chestnut St., will rebuild plant (recently noted burned) for manufacturing tankage, grease and bone meal; building will be 30x65 feet; ordinary construction; cost \$1100; will install machinery.

Va., Portsmouth—Distillery.—Fred Cox will establish distillery; erect frame buildings; construction begun.

Va., Richmond—Street Signs.—Virginia Patent Sales Co. incorporated with \$100,000 capital stock; J. N. Purcell, president; James H. Price, vice-president; S. C. Gordon, secretary-treasurer; manufacture street signs.

RAILWAY SHOPS, TERMINALS, ROUNDHOUSES, SHEDS, ETC.

Md., Baltimore.—Northern Central Railway Co., Calvert and Center Sts., awarded contract to M. C. Davis, 15 E. Fayette St., Baltimore, for erection of two electro-pneumatic signal stations at Maryland Ave., and between Calvert St. and Guilford Ave.; terra-cotta block; hollow tile construction; generally fireproof; steam heat; electric lights. (Recently mentioned.)

Tenn., Chattanooga.—Nashville, Chattanooga & St. Louis Railway, H. McDonald, chief engineer, Nashville, Tenn., will rebuild portion of shed recently reported burned; remaining portion of old roof will be replaced with fireproof material; cost \$50,000.

Tex., Somerville.—Gulf, Colorado & Santa Fe Railway, F. Merritt, chief engineer, Galveston, Tex., awarded contract to H. D. McCoy, Cleburne, Tex., to erect brick machine shop and boiler-room; pile and concrete foundation; walls of brick; window sills of cut stone; ornamental terra-cotta wall coping; roof of tar and gravel; sides of building will be 92 feet deep; front 56 feet and rear 52 feet wide; estimated cost \$7500.

ROAD AND STREET WORK

Ala., Alleeville.—City Council passed ordinance providing for laying of five-foot concrete sidewalks from 2d St. west to corporate limits along both sides of Third Ave. Address The Mayor.

Ala., Birmingham.—Maury Nicholson, City Engineer, will prepare ordinance providing for paving Twenty-second St. from Avenue B to Avenue F, Twenty-third St. from Avenue F to Avenue C, and Avenue C from Twenty-second to Twenty-third St.; also Cleveland St. from Highland Ave. to Hanover Circle, and Fourteenth St. from Second Ave., south, to general railroad right of way; will invite bids for paving Twenty-fifth St. from Seventh to Fifteenth Ave. and for work under improvement ordinances Nos. 572, 575, 582, 583 and 586.

Ala., Birmingham.—City awarded contract to Andrews Asphalt Paving Co. of Birmingham at \$49,642 to pave 18th St. from Avenue A to Avenue K; C. M. Burkhalter Contracting Co. of Birmingham at \$241 for paving and guttering according to ordinance 517.

Ala., Cullman.—Max Schmidt will construct one mile of road on Bremen road to ascertain cost of constructing this system of roads over entire county.

Ala., Cullman.—City Council contemplates improving sidewalks. Address The Mayor.

Ala., Mobile.—Board of Public Works has plans and other data for 33,000 square yards wood-block paving, with grading and concrete foundation; 13,426 linear feet cement curbing, with grading; 10,350 linear feet storm sewers, with manholes, inlets and catch-basins, etc.; 6000 feet of six-inch vitrified pipe house connections; 11,400 square yards cement pavement; \$400 feet granite curbing; 200 feet 3x5-foot concrete culverts; 1000 feet 10-inch vitrified pipe storm sewers; receives bids until February 16; Wright Smith is chief engineer. (See "Machinery Wanted.")

Fla., Tarpon Springs.—Town will pave Tarpon Ave. from Ring St. to eastern town limits with vitrified brick and vitrified curbing; work will consist of 3000 square yards of paving and 3500 feet of vitrified curbing; bids opened January 24; C. B. Douglass, Town Clerk.

Fla., Jacksonville.—Philip Prioleau, City Engineer, submitted blueprints and estimates to Board of Public Works on streets to be paved from \$100,000 bond issue; streets include Ashley St., widening 16 feet from Bridge to Davis; May St., Date to Forest; Date St., May to Oak; Highway Ave., Palm to city limits; Riverside Ave., King to city

limits; Palm St., Forest to Highway, etc.; total cost is estimated at \$108,709.

D. C., Washington.—Lincoln Memorial Road Association organized to promote construction of road from Washington to Gettysburg, Pa.; Leslie T. McCleary, executive secretary.

Ga., Atlanta.—Council has appropriated \$5000 for regrading Spring St. between Walton St. and Carnegie Way. Address City Engineer.

Ga., Macon.—City awarded contract to W. W. Lasley of Macon for street paving on Second, Fourth, Mulberry and First Sts., Georgia, Hardeman and Vineville Aves., etc.

Ky., Louisville.—Plans are being prepared for paving with asphalt 20,000 square yards of Bardstown Rd. from Duker Ave. to Douglass Blvd.; estimated cost \$40,000; D. R. Lyman is chief engineer.

Ky., Paducah.—Board of Public Works awarded contract to G. W. Katterjohn of Paducah at \$6754.65 and \$4217.84, respectively, for laying concrete sidewalks, curbs and gutters on Broadway and 10th St., and to Knoxville (Tenn.) Roofing & Paving Co. at \$4756.88 for similar work on Jefferson St.; L. A. Washington, City Engineer. (Recently mentioned.)

La., New Orleans.—Consumers' Brewing Co. awarded contract to C. Hyland & Co. of New Orleans at \$7000 for paving around stable.

Md., Catonsville.—Baltimore county, under supervision of Henry G. Shirley, roads engineer, Towson, Md., is having bed of Newburg Ave. surveyed preparatory to having section of it regraded and concrete curb and gutter laid on both sides of avenue; bed of avenue will be resurfaced with tar macadam from gutter to gutter; improvements will extend from Frederick Ave. distance of about 2300 feet.

Miss., Brookhaven.—Lincoln county will construct 60 miles of roads in district No. 1; 24 feet wide, with surfaceway of 16 feet; material used will be water-worn bank gravel mixed with clay and sand, placed upon road 7 to 9 inches deep; culverts and bridges will probably be of concrete; cost \$150,000; engineer not engaged; H. Cassidy, Commissioner. (Recently noted.)

Miss., Gulfport.—Road Commissioners, who will expend \$50,000 for road improvements, engaged J. B. Cable and corps to lay out road from Woolmarket to London on Gulf & Ship Island Railroad.

Miss., Mendenhall.—Simpson County Supervisors authorized sale of \$40,000 road bonds.

Miss., New Albany.—Union county will construct roads; B. A. Webb, highway engineer Union County Road Commission.

Miss., Tupelo.—City contemplates voting on issuance of \$25,000 of bonds for street improvements; D. W. Robins, Mayor. (Recently noted.)

N. C., Charlotte.—City contemplates voting on issuance of \$250,000 of street bonds; T. W. Hawkins, Mayor.

N. C., Durham.—City has petitioned for authority to issue \$300,000 of bonds for streets, sidewalks, sewer construction and erection of disposal plant. Address The Mayor.

N. C., Elizabeth City.—City awarded contract to J. L. Lawson, Norfolk, Va., at \$1.60 per square yard to pave Water and other streets with granite blocks; Board of Aldermen will invite bids until February 7 for paving; Z. Fearing, Mayor. (Recently mentioned.)

Okla., Hugo.—City Council will consider paving two miles of streets in business district. Address The Mayor.

S. C., Aiken.—City contemplates paving Main and other streets. Address The Mayor.

S. C., Sumter.—Sumter County Commissioners authorized \$10,000 of bonds for road improvements.

Tenn., Chattanooga.—Hamilton county will issue \$65,000 of bonds to construct road across Lookout Mountain; also petition Legislature for authority to issue \$500,000 of bonds for improving roads and \$100,000 for completing Rossville boulevard, in which \$50,000 has been expended; Joe V. Williams, County Judge.

Tenn., Memphis.—Speedway Land Co. awarded contract to Kookler Paving & Concrete Co., Memphis, for construction of half mile of concrete paving, curbing and gutters on Faxon Ave., Speedway and Watkins St.; also to same company for constructing concrete bridge over bayou on Faxon Ave.; cost, more than \$10,000.

Tenn., Rogersville.—Hawkins County Commissioners authorized issuance of \$40,000 of road bonds.

Tex., Bryan.—City awarded contract to W.

P. Wallace of Bryan for laying concrete sidewalks.

Tex., Dallas.—City Commission has ordered that plans and specifications be prepared for grading as follows: Walton St., between Elm St. and Pacific Ave.; Worth St., between Pacific Ave. and Fitzhugh; Pennsylvania Ave., between Holmes St. and Oakland Ave. Recently awarded contracts were approved as follows: Bitulithic, to Texas Bitulithic Co., on Grand, between Ervay and Holmes; Haskell Ave., between Ross Ave. and the Texas and Pacific tracks, and Holmes St., between Grand and Pennsylvania Aves. Vitrified brick paving, to D. J. Grigsby, on Griffin St., between Cochran St. and Pacific Ave.; Elm St., between Ervay St. and Houston and Texas Central Railway; Market St., between Jackson St. and Pacific Ave. E. T. Preston is City Engineer.

Tex., Fort Worth.—J. D. Trammell, City Engineer, will receive bids until January 31 for improvements, including bitulithic, vitrified brick or other paving, on North and 16th Sts. (See "Machinery Wanted.")

Tex., Houston.—City is considering construction of boulevard and park system from Houston Heights Blvd. along White Oak Bayou to Southern Pacific Hospital in Fifth ward, to connect with Montgomery Ave. and new Main St. viaduct leading into center of Houston; estimated cost, \$150,000; estimate includes grading and parking and concrete bridge work over bayou; H. B. Rice, Mayor.

Tex., San Antonio.—Bexar county will resurface Boulevard Rd. for distance of about one mile and construct about one-half mile of new road on New Braunfels Ave.; bids opened January 23; Thomas E. Ramsey, County Auditor.

Tex., Seguin.—City will construct 9000 feet of curbing, also culverts and sidewalks; also about one mile of 40-foot macadam street, etc.; bids received until January 25; H. H. Welbert, Mayor; J. B. Taylor, City Clerk.

Tex., Waxahachie.—City will vote on issuance of \$30,000 bonds for street paving. Address The Mayor.

Tex., Wichita Falls.—City awarded contract to Creosoting Wood Block Paving Co., Gulfport, Miss., at \$2.55 per square yard for 35,000 square yards wood block street paving; 5-inch concrete base; sand filler; concrete gutters.

Va., Norfolk.—Finance and public improvement committees jointly recommended appropriations for paving Church, 10th, 11th, 13th, 14th and 15th Sts.; amount of appropriation for paving Church St. is \$138,000; W. T. Brooks, City Engineer.

Va., Roanoke.—Common Council decided to advertise for bids for construction of granite sidewalks on south side of Patton Ave. N. W.; also adopted resolution to grade 15th St. N. W. from Loudon to Buena Vista Ave. at cost not to exceed \$2000, and for guttering paving and macadamizing of certain streets. Address The Mayor.

Va., Norfolk.—City plans street improvements as follows: In Sixth ward at cost of \$61,000; in Brambleton, \$30,000; in Berkley, \$30,000; in Fourth ward, \$6000; Westover and Rossevald Aves., \$8000; connecting Freeman and Falkland Sts., \$65,000; W. T. Brooks is City Engineer.

W. Va., Huntington.—City will pave alley between Third and Fourth Aves. from 20th to 21st St., and alley between Third and Fourth Aves. from 6th to 5th St.; bids will be received until February 20; A. B. Maupin, City Engineer. (See "Machinery Wanted.")

SEWER CONSTRUCTION

Ala., Attalla.—City will open bids within 30 days for construction of sewer system; \$30,000 bond issue previously authorized. Address The Mayor.

Ala., Birmingham.—City awarded contract to J. W. Gurley & Co. of Birmingham for Sections 1, 2, 4 and 5 of storm sewers under improvement ordinance No. 447, new series, for sums of (1) \$96,067.50; (2) \$78,513.70; (3) \$11,251.30; (4) \$13,404.55; and to McCartin Contracting Co. of Birmingham for Sections 3 and 6 of storm sewers under improvement ordinance No. 447, new series, for sums of (3) \$29,225, and (6) \$14,561.50.

Ala., Cullman.—City Council contemplates construction of sewer system. Address The Mayor.

Ala., Mobile.—Board of Public Works has plans and other data for 10,350 linear feet storm sewers, with manholes, inlets, catch-basins, etc.; 1000 feet 10-inch vitrified pipe storm sewers; receives bids until February 16. (See "Road and Street Work" and "Machinery Wanted.")

Ala., New Decatur.—City will construct storm sewers; sewer in South New Decatur

will cost \$8000 and sewer in West New Decatur \$9000. Address The Mayor.

Fla., Sarasota.—City Council voted to issue bonds for construction of sewer system. Address The Mayor.

Ga., Waycross.—City Council adopted plans for extension of sewer and water system through Gilchrist Park (suburb); cost about \$7000. Address The Mayor.

Ky., Louisville.—Louisville Sewerage Commission opened bids for 1d St. sewer; lowest bidders are James Ferry & Son of Pittsburg, Pa., at \$30,000.

Md., Easton.—City will vote February 23 on issuance of \$40,000 of bonds for construction of sewer system with disposal plants; Clyde Potts, 30 Church St., New York, is preparing plans. (Recently noted.)

Mo., Glasgow.—City is having plans prepared by Burns & McDonnell, Kansas City, Mo., for extensions to sewer system and water-works; to include installation of new machinery, settling basins, filtration, main extension and sewers; cost \$21,000; will advertise for bids. (Decision of \$30,000 bond issue recently noted legalized for sewers, water-works and electric-light plants.)

N. C., Charlotte.—City contemplates voting on issuance of \$250,000 of sewer bonds; T. W. Hawkins, Mayor.

N. C., Durham.—City has petitioned for authority to issue \$300,000 of bonds for sewer construction, erection of disposal plant and improvements to streets and sidewalks. Address The Mayor.

N. C., Wilson.—Board of Commissioners will receive sealed proposals until February 15 for construction of brick storm sewer; 1000 feet to 2000 feet long, size 30 to 48 inches, according to plans and specifications now in office of Town Clerk; usual rights reserved; T. A. Hinnant, clerk of Board. (See "Machinery Wanted.")

Okla., Checotah.—City awarded contract at \$29,602.40 to C. R. Nichols of Caney, Kans., for construction of sanitary sewer. (Previously noted.)

Okla., Muskogee.—Charles Wheeler, City Clerk, will receive bids until February 6 at 5 o'clock P. M. for construction of sanitary sewers. (See "Machinery Wanted.")

Okla., Muskogee.—Alexander Potter, consulting engineer, 114 Liberty St., New York, submitted report to City Council estimating cost of constructing sewage disposal plant at \$225,000. (Recently mentioned.)

Okla., Ponca City.—City will receive bids until January 31 for construction of lateral sewers in districts No. 1 and No. 7; A. W. Farris, City Clerk. (See "Machinery Wanted.")

Okla., Tulsa.—T. C. Hughes, City Engineer, will receive bids until January 31 for construction of storm sewer across 4th St. near Owasso Ave.; concrete pipe, 48 inches inside diameter and 60 feet long. (See "Machinery Wanted.")

S. C., Rock Hill.—City has retained Thos. W. Cothan, Greenwood, S. C., to prepare plans and make surveys for sewerage and water-works plants; cost \$250,000; B. Parks Rucker, Charlotte, N. C., is consulting engineer; plans will be ready in about 30 days. (Previously noted to have voted \$255,000 for sewerage, water-works and electric-light plants.)

S. C., Rock Hill.—City will construct sewer system; T. P. Cothan, Greenwood, S. C., will superintend survey of city preparatory to construction of sewer system; engineers will have offices in People's National Bank Bldg. (City previously mentioned as having voted \$285,000 bond issue for water-works, sewer construction and electric-light plant.)

Tenn., Maryville.—City contemplates construction of sewer system and water-works. Address The Mayor.

Tex., Lubbock.—City will construct sewer system and water-works at estimated cost of \$85,000. E. L. Dalton, Dallas, Tex., is engineer.

Tex., Wichita Falls.—City awarded contract to I. H. Roberts of Wichita Falls at \$14,400 to construct storm sewers in business district. (Recently mentioned.)

Va., Norfolk.—City plans expending \$31,000 for drainage construction. W. T. Brooks is City Engineer.

W. Va., Huntington.—City will construct lateral sewer in Adams Ave. from 13th to 15th St., and in 15th St. from Adams Ave. to alley between Washington and Virginia Aves.; also in alley between Washington and Virginia Aves. from 15th to 18th St., and in alley between Washington and Adams Aves. from 15th to 18th St.; bids will be received until February 20; A. B. Maupin, City Engineer. (See "Machinery Wanted.")

TELEPHONE SYSTEMS

Ark., Little Rock.—Arch Street Telephone Co. incorporated with R. S. Parker, president; Daniel Rauch, vice-president; L. H. Kirby, secretary; Edward Watters, treasurer; will construct telephone line in Pulaski county from Arch St. to Parker, distance 10 miles, with about five miles additional.

Md., Salisbury.—Diamond State Telephone Co. will erect telephone building on East Church St.

Miss., New Augusta.—New Augusta Telephone Co. will extend telephone system to rural districts.

Okla., Ardmore.—Pioneer Telephone Co., J. M. Noble, general manager, Oklahoma City, Okla., has, it is reported, taken over management of Chickashaw Telephone Co., and will make extensive improvements.

Tex., Houston.—Southwestern Telephone & Telegraph Co., H. J. Pettengill, president, Dallas, Tex., plans expending \$600,000 within year for improvements; will erect main telephone exchange (previously noted) at San Jacinto St. and Capitol Ave., to cost, including equipment, \$400,000; will erect exchange on Harrisonburg road and brick building to replace Taylor exchange; install new conduits and place miles of cable; provide for at least 25,000 telephones.

W. Va., Clifton.—North Fayette Telephone Co. incorporated with \$5000 capital stock by R. L. Walker and others.

W. Va., Cliff Top.—North Fayette Telephone Co. incorporated with \$5000 capital stock by R. L. Walker, John E. Hugart and others.

W. Va., Newville.—Newville Telephone Co. incorporated with \$5000 capital stock by G. W. McQuain of Newville, Benjamin H. Adkinson of Corley, W. Va., and others.

TEXTILE MILLS

Ga., Monticello.—Converters' Cloth.—Jasper Cotton Mills changed name to Castle Cotton Mills, increased capital stock from \$200,000 to \$1,000,000 and organized with Wm. T. Lang of West Point, Ga., president and general manager; will build plant of 50,000 spinning spindles, 5000 twister spindles, 1300 looms, etc., driven by electricity from transmission lines of Central Georgia Power Co. of Macon, Ga.; will require 5000 horse-power at 65,000 volts; product to be special line of fine fabrics; architect-engineer engaged; all contracts about closed. (Jasper company previously reported organized and Castle company previously reported planned.)

Md., Baltimore.—Nets and Twine.—W. & J. Knox Net & Twine Co., Johnson and Barney Sts., awarded contract to B. Howard Mason, 1221 Valley St., Baltimore, to construct addition to plant; two stories; 43x61 feet; brick and stone; slag roof; cost \$6000. (Recently mentioned.)

Md., Baltimore.—Hosiery.—Mount Vernon Knitting Co. organized with \$20,000 capital stock; will install 5 knitting machines and auxiliary machinery; electric power; president, C. V. Stinchecum; George W. Fort, secretary-treasurer; plant at Chestnut Ave. and 36th St. (Recently noted incorporated, etc.)

N. C., Vaughan.—Hosiery.—Allgood Hosiery Mills Co. incorporated with \$12,000 capital stock by M. F. Parker, A. C. Allgood and C. B. Vaughan.

S. C., Anderson.—Cotton Yarns.—Riverside Manufacturing Co. will increase capital stock from \$25,000 to \$401,250; now has 21,908 ring spindles, etc.

S. C., Anderson.—Print Cloth.—Toxaway Mills will increase capital stock from \$25,000 to \$361,250; now has 17,168 ring spindles, 241 looms, etc.

Tex., Brenham.—Sheetings.—Brenham Cotton Mills, H. F. Kolves, president, proposes organization of \$100,000 stock company to take over present company and put mill in operation; has 5000 spindles, 171 looms, etc.

WATER-WORKS

Ala., Talladega.—City will lay water and gas mains; no contracts. (Recently noted to have appropriation of \$10,000.)

Ark., Blytheville.—J. E. Thompson, 241 N. Fourth Ave., Nashville, Tenn. (recently noted to have been granted franchise) will construct water-works; 500,000 gallons capacity; to include pumping station to cost \$2000; also two steel towers 125 feet, with 75,000-gallon tank, and one 40 feet, with 40,000-gallon tank; install electric and coal oil engine; whole cost \$60,000; plans by Rollan & Westover, Kansas City, Mo. (See "Machinery Wanted.")

Fla., Sarasota.—City Council voted to issue

bonds for construction of water-works. Address The Mayor.

Ga., Doerun.—City voted \$500 bond issue for improvements to water-works. Address The Mayor. (Previously noted.)

Ga., Waycross.—City Council adopted plans for extension of water and sewer system through Gilchrist Park (suburb); cost about \$7000. Address The Mayor.

Ky., Dayton.—City is considering, it is reported, construction of water-works. Address The Mayor.

Ky., Somerset.—Joseph H. Gibson and associates purchased properties and franchises of Somerset Water, Light & Traction Co. for \$75,000 and will expend \$50,000 for improvements; purchase includes water-works system and pumping station, electric-light plant, ice plant and electric street railway; present improvements will include new filter plant and engine.

La., Many.—City plans construction of water-works, electric lighting plant and ice factory. Address The Mayor.

Miss., Laurel.—City Council will consider enlargement of water-works. Address Mayor Noble.

Mo., Glasgow.—City is having plans prepared by Burns & McDonnell, Kansas City, Mo., for extensions to water-works and sewer system; to include new machinery, settling basins, filtration, main extension and sewers; cost \$21,000; will advertise for bids. (Decision of \$30,000 bond issue recently noted legalized for water-works, sewers and electric-light plant.)

Mo., Kansas City.—Board of Fire and Water Commissioners will invite bids for two new water mains in Country Club district, south of 42d St.; one main will extend from 42d St. and Broadway to 55th St., and other along 55th St. from Broadway to Troost Ave.; first will be 16-inch main and second 12-inch main; J. L. Darnell, City Engineer.

Mo., Marionville.—Aurora Electric Light & Water Co. has franchise to construct water-works; reported cost, \$25,000; also plans building electric plant.

Mo., St. Louis.—City will issue \$100,000 of bonds for improvements to water system outside of city limits; Maxine Reber, City Engineer.

N. C., Charlotte.—City contemplates voting on issuance of \$325,000 of water-works bonds; T. W. Hawkins, Mayor.

N. C., Durham.—City has petitioned for authority to issue \$500,000 of bonds for purchase of water-works. Address The Mayor.

Okla., Achilla.—Town contemplates, it is reported, constructing water-works. Address Town Clerk.

Okla., Guthrie.—City Council appropriated \$20,000 for laying water mains; A. A. Leor, City Clerk.

Okla., Heavener.—City awarded contract to T. C. Brooks & Sons Co., Jackson, Mich., at \$49,599 to construct water-works.

Okla., Muskogee.—Alexander Potter, consulting engineer, 114 Liberty St., New York, submitted report to City Council estimating cost of water supply plant at \$390,000. (Recently mentioned.)

S. C., Rock Hill.—City has retained Thos. W. Cothan, Greenwood, S. C., to prepare plans and make surveys for water-works and sewerage plants; cost \$250,000; B. Parks Rucker, Charlotte, N. C., is consulting engineer; plans will be ready in about 30 days. (Previously noted to have voted \$285,000 bond issue for electric-light, water-works and sewerage plants.)

Tenn., Chilhowee.—Chilhowee Water Co. incorporated with \$10,000 capital stock by Charles Seymour, F. S. Mead, R. P. Johnson and others.

Tenn., Clarksville.—City retained James Nisbet Hazlehurst, Candler Bldg., Atlanta, Ga., to supervise reconstruction of water system; estimated to cost \$50,000.

Tenn., Johnson City.—City Council is considering plans for proposed \$500,000 system of water-works; T. Chalkley Hatton, Wilmington, Del., has conferred with City Council. Address The Mayor.

Tenn., Maryville.—City contemplates construction of water-works and sewer system. Address The Mayor.

Tex., Fort Worth.—City Commission awarded contracts for additional equipment for water-works system, including 5,000,000-gallon pump, 510-horse-power boiler, air compressor, etc.

Tex., Lubbock.—City will construct water-works and sewer system at estimated cost of \$85,000. E. L. Dalton, Dallas, Tex., is engineer.

Tex., Rusk.—City will vote February 14 on issuance of bonds for installing water-works

system. Address The Mayor. (Election necessary owing to records of first election being destroyed by fire.)

Va., Norfolk.—City plans expending \$50,000 for water meters. W. T. Brooks is City Engineer.

Va., Portsmouth.—City voted issuance of \$600,000 of bonds for water-works; E. Thompson, clerk. (Recently mentioned.)

Va., Vinton.—Vinton-Roanoke Water Co., Roanoke, Va., will expend about \$40,000 to cut rock tunnel 2000 feet long and 5x6½ feet; to provide reservoir for 278,000,000 gallons of water for additional supply; construction begun.

Va., Woodstock.—City will construct reservoir with capacity of at least 600,000 gallons and connect same with present reservoir; cost not to exceed \$3000. Address The Mayor.

W. Va., Benwood.—Benwood & McMechen Consolidated Water Co., chartered with \$200,000 capital stock by E. Gates and G. Helwicks of Steelton, Pa.; W. Dale Shaefer, F. W. Kenwig and N. J. Happle of Mechanicsburg, Pa.; will supply water to Benwood and McMechen.

W. Va., McMechen.—Benwood & McMechen Consolidated Water Co., incorporated with \$200,000 capital stock by E. Gates and G. Helwicks of Steelton, Pa.; W. Dale Shaefer, F. W. Kenwig and N. J. Happle of Mechanicsburg, Pa.; will supply water to McMechen and Benwood.

W. Va., Shepherdstown.—City is considering construction of water-works; City Council appointed committee to consider granting franchise to H. C. Brooks, Clarksburg, W. Va.

WOODWORKING PLANTS

Ark., Texarkana.—Sash and Doors.—Board of Trade closed contract with R. M. Patterson of Texas Glass Co. and others to establish sash and door factory; erect building 100x150 feet; cost \$3000.

Fla., Jacksonville.—Coffins.—Arthur Traynor and W. A. Humphries, Cleveland, Tenn., contemplate establishment of plant for manufacturing coffins and caskets.

Ga., Blue Ridge.—Porch Columns.—Builders' Supply Co. contemplates enlargement of porch column factory.

Ga., Raymond.—Cooperage.—Raymond Cooperage Co. will establish plant; reported cost, \$10,000.

Ga., Savannah.—Barrels.—American Barrel Co., E. M. Brogden, president, will establish plant to manufacture ventilated and slack barrels of all kinds; cost \$100,000. (This company is subsidiary to and will use machinery patented and manufactured by Truckers Crate & Barrel Co., previously reported incorporated.)

Ky., Louisville.—Cooperage.—Louisville Cooperage Co. contemplates erecting brick building covered with metal roof to replace present wooden structure; manufactures tight barrels.

La., Ferriday.—Hoops.—Ferriday Hoop Co., J. E. Ormsby, general manager, will establish hoop factory.

La., Morgan City.—Porch Columns.—J. L. Pease Co. will install additional machinery; has awarded contract.

Md., Baltimore.—Carriages, etc.—R. Milton Norris Company, 518 W. Baltimore St., incorporated with \$100,000 capital stock; R. Milton Norris is president, W. H. Kinefelter, vice-president; J. Roland Hunt, treasurer; J. Carroll Hammen, secretary; will continue established plant.

Md., Baltimore.—Boxes.—Canton Box Co., 2515 Boston St., awarded contract to Geo. A. Blake, Law Bldg., Baltimore, for construction of building on Boston St.; two stories; 12x117 feet; brick and concrete; terra-cotta trimmings; gas and electric lights; cost \$40,000; plans by J. A. Wilson and W. L. Smith, Law Bldg., Baltimore. (Previously mentioned.)

Miss., Natchez.—Spokes.—R. T. Rose, Georgetown, Miss., contemplates, it is reported, establishment of two spoke factories.

Miss., Vicksburg.—Staves.—Big Four Stave & Mill Co., Colby, Miss., will erect stave mill near Vicksburg.

N. C., Asheville.—Wagons.—American Wagon Co. organized with \$50,000 capital stock; Joseph Stifter, president, Fort Smith, Ark.; J. C. Wallace, vice-president; Jas. E. Rector, secretary-treasurer, both of Asheville; will establish plant on South Main St. to manufacture Asheville straight hound farm wagons, delivery wagons, etc.

N. C., Goldsboro.—Buggies.—Goldsboro Buggy Co. will take over its plant previously operated by Goldsboro Investment Co. and

will increase capital stock. D. R. Kornegay will be retained as manager.

N. C., Lexington.—Chairs.—Lexington Chair Co., recently reported incorporated with \$50,000 capital stock by George L. Hackney, Asheville, N. C., and others, purchased and will operate plant of Oneida Chair Co.

Okla., Muskogee.—Handles, Spokes, etc.—Oklahoma Hardwood Manufacturing Co. will build factory for ax handles, wagon spokes, etc.

Tenn., Harriman.—Heading.—Harriman Heading Co. will expend \$3000 to erect buildings and install machinery to manufacture heading; J. E. Davidson, president; C. A. Wallanger, vice-president; E. A. Wallanger, secretary. (Recently reported incorporated with \$5000 capital stock.)

Tenn., Tiptonville.—Staves.—Parker, Davis & Co. of Union City, Tenn., will build stave mill.

Tex., Beaumont.—Columns.—Beaumont Column Co., incorporated with \$100,000 capital stock by R. M. Morrill, William C. Hall and John M. Conley.

Tex., Houston.—Vehicles.—Model Carriage Co. has purchased building corner Franklia Ave. and Crawford St. and will remodel for carriage factory; will install ornamental front, cement floors and elevators.

Tex., Marshall.—Boxes, Crates, etc.—Marshall Manufacturing Co., A. M. Cleveland, president and manager, will establish plant to manufacture boxes, crates and baskets; awarded contract to Turney & Keasler Bros. (address care of company) for erection of \$5000 building; ordinary construction; cost of machinery (purchased), \$10,000. (Recently noted as Edgerton Manufacturing Co., Plymouth, Ind.)

Va., Portsmouth.—Wagons, etc.—Portsmouth Woodworking Manufacturing Co., recently reported incorporated with \$5000 capital stock, has leased 40x100-foot building and will manufacture vehicles; J. F. McCullough is president.

Va., Suffolk.—Buggies.—One Buggy Co. (recently reported incorporated), J. M. Darden, president, will erect five-story factory building; 80x130 feet; 40,000 square feet of floor space.

BURNED

Ark., Arkansas City.—Kimball-Lacy Lumber Co.'s mill; reported loss, \$50,000.

Ark., Blytheville.—Spot Cash Grocery Co.'s store was not burned. (Recent report an error.)

Ala., Evergreen.—Dunn Hardware Co.'s garage.

Ark., Imboden.—E. Dalton's residence; loss \$5,000.

Ark., Little Rock.—Charles Hearst's saw and grist mill.

Fla., Jacksonville.—S. B. Hubbard Co.'s store, recently reported burned, was but slightly damaged; repairs will be completed by January 21.

Fla., Jacksonville.—E. Bean & Son Company's warehouse damaged, loss \$20,000; warehouse occupied by W. B. Johnson Grocery Co. and Flynn-Harris-Bullard Company; Atlanta Coast Line Railroad's shed and piers, loss about \$25,000.

Fla., St. Petersburg.—Manhattan Hotel, owned by W. H. Adams, damaged; loss, \$7,000.

Ga., Atlanta.—S. M. Inman states plant (recently reported burned) was but slightly damaged; occupied by Empire Skirt Co.

Ga., Atlanta.—Building at 44-46 Mitchell St., owned by Samuel H. Inman and occupied by Empire Skirt Co., Silverman & Lonsberg's wholesale millinery establishment, etc.; loss on building about \$12,000.

Ky., Bardwell.—J. W. Turk's warehouse; estimated loss, \$15,000.

Ky., Middlesboro.—H. H. McKee's building; loss \$20,000.

Ky., Whitesburg.—Postoffice building; B. F. Holdbrook's store; Whitesburg Telephone Co.'s exchange; Purful & Co.'s store; Ira Field & Co.'s building; loss, \$15,000.

La., Crowley.—Jay Freeland's rice warehouse.

La., Lake Charles.—American Feed Co.'s warehouse; loss \$3000.

Md., Cumberland.—Lefevre Bldg.; loss \$10,000.

Mo., Rockport.—J. A. Rose's bakery and other buildings.

Miss., Sumrall.—D. B. Parker & Co.'s building; building owned by J. E. King and E. C. Kingsberry; loss \$12,000.

Mo., Nevada.—N. M. Vilm's flour mill; loss \$50,000 to \$60,000.

Mo., Manchester.—Manchester Milling Co.'s plant; estimated loss, \$100,000.

N. C., Greensboro.—Family Laundry; loss to T. A. Brannon, proprietor, \$800; loss on building, owned by John A. Hodgin, \$2000.

N. C., Clinton.—R. B. Smith's sawmill, cotton gin and other buildings; loss \$4000.

N. C., Goldsboro.—Independent Order of Odd Fellows' laundry building.

N. C., Sanford.—Fourshee Building, owned by Insurance Realty & Investment Co., loss \$10,500; W. T. Buchanan's building, loss \$15,000.

N. C., Sanford.—Insurance, Realty & Investment Co.'s building, occupied by Lambreth-Baldwin Company; loss \$10,500; W. T. Buchanan's building; loss \$10,000.

Okla., Lenap.—Rea-Patterson Milling Co.'s grain elevator; Missouri Pacific Railway system's depot, M. L. Byers, chief engineer, St. Louis, Mo.; total loss \$10,000.

S. C., Orangeburg.—John Cart's cotton warehouse.

S. C., Summerton.—Summerton Mercantile Co.'s cotton gin; loss \$10,000.

Tenn., Knoxville.—Vestal Lumber Co.'s

planing mill and chest factory; reported loss, \$40,000.

Tenn., Knoxville.—B. F. Young's residence on Woodlawn pike; loss \$12,000.

Tex., Hamilton.—J. M. Birney's cotton gin; loss \$8000.

Tex., Marshall.—Sam Ellis' pottery; loss, \$4000.

Tex., Ottawa, R. F. D. from Medwig.—Graner Mercantile Co.'s store; loss \$5000.

Tex., Snyder.—Snyder Mercantile Co.'s store, loss \$55,000; Stokes-Ely Furniture Co.'s store, loss on building \$9000.

Tex., Wellington.—Wellington Dry Goods Co.'s store; Brown Dry Goods Co.'s store; Wellington Hardware Co.'s store, and other buildings; loss \$40,000.

Va., North Fork.—Two buildings owned by Toney & Thomas; loss \$15,000 to \$20,000.

W. Va., Clarksburg.—Traders' Hotel and Grand Opera House, owned by J. E. Sands estate, loss \$80,000; Traders' Annex Bldg., owned by W. Brent Maxwell of Clarksburg and Louis Bennett of Weston, W. Va., loss \$6000.

BUILDING NEWS

BUILDINGS PROPOSED

APARTMENT-HOUSES

D. C., Washington.—W. H. Herriman has plans by A. H. Beers, 1342 New York Ave. N. W., Washington, for three two-story brick stores and apartment buildings at 5501-05 Georgia Ave. N. W.; cost \$7500; construction by owner.

Ky., Louisville.—Weissinger-Gaulbert Apartment House has plans by McDonald & Dodd, Louisville, for annex to apartment-house; 10 stories; cost \$400,000.

Mo., Kansas City.—William Tobener will erect store and apartment building; two stories; brick and concrete; cost \$15,000.

S. C., Columbia.—Ernest G. Cook contemplates erection of apartment-house at Washington and Bull Sts., to be known as New Southern; three stories; 12 apartments; hot water heat; electric lights.

Tex., El Paso.—J. R. Fisk will erect three-story apartment-house; cost \$24,000.

W. Va., Parkersburg.—E. C. Gerwig is having plans prepared by R. Adair, 225 5th St., Parkersburg, for apartment-house; three stories; brick; 24x76 feet; ordinary construction; cost \$7000; will open bids February 1. Address architect.

ASSOCIATION AND FRATERNAL

Ga., Athens.—Young Women's Christian Association will expend \$40,000 for erection of administration building, boarding-house, gymnasium, swimming pool and smaller auditorium.

Tenn., New Providence.—Trustees of Odd Fellows' Home plan erection of \$20,000 addition.

Tex., Dallas.—Sons of Hermann will erect lodge building; two stories; frame; plans by William Martens, Dallas; plans erection of two-story fireproof building later.

BANK AND OFFICE

Ark., Blytheville.—A. O. Burton will rebuild office building occupied by Dr. J. F. Wood; fireproof construction. (Recently reported burned.)

Fla., Madison.—First National Bank will open bids March 1 for erection of proposed bank and office building; two stories; 25x100 feet; ordinary fireproof construction; steam heat; electric lighting; cost, \$15,000; plans by W. B. Camp, 20 Main St., Jacksonville, Fla.; plans ready for bids February 10.

Fla., Ocala.—Ocala National Bank will open bids March 1 for erection of bank building; 6x76 feet; ordinary fireproof construction; Indiana limestone; steam heat; electric lighting; cost, \$25,000; plans by W. B. Camp, 20 Main St., Jacksonville, Fla.; plans ready for bids by February 10. (Previously noted.)

Ga., Atlanta.—J. N. Bateman, James E. Hickey and associates contemplate erecting office and mercantile building; 10 stories; steel and concrete or stone; 19 rooms to each floor; ground floor to contain seven stores; negotiating for site 63x75 feet.

Ga., Dalton.—Mrs. J. C. Bivings and Mrs. Robert Timmons of Dalton and Mrs. Stewart Marshall and Carl Bivings of Rome, Ga., are interested in erection of office building; brick construction; steam heat; gas and electric lighting; plans being prepared.

Ga., Quitman.—Citizens' Bank will erect two-story bank building.

Ga., Tifton.—J. J. Golden has plans by W. A. Edwards, 632 Candler Bldg., Atlanta, Ga., for office and store building. (See "Stores.")

Tenn., Knoxville.—Nathan B. Kuhlman and F. B. Stuart will erect three-story brick store and office building.

Ky., Georgetown.—First National Bank, Main St. and Broadway, is having plans prepared by Leo L. Oberwarth, Frankfort, Ky., for enlargement and remodeling of banking department; vault to be removed to new location in building and new vault built in basement; addition will be largely of marble and mahogany.

Md., Salisbury.—Salisbury Loan, Building and Banking Association purchased building and will remodel for office building; erect additional story in front, etc.

Md., Salisbury.—William M. Cooper and Mark Cooper will erect three-story office building to replace Advertiser building; 40x90 feet; upper floors for offices, banking rooms, etc.; basement for workroom, pressroom, etc., of Salisbury Advertiser.

Md., Wallbrook, Station F, Baltimore.—Chesapeake Bank has plans by Alfred Cookman Leach, 323 N. Charles St., Baltimore, Md., for bank building on North Ave.; one story; gray pressed brick with Indiana limestone trimming; triangular shape; 16x50x61 feet; tile floors; Flemish oak interior finish with verde antique marble wainscoting; handwrought iron grillwork; boardroom and cashier's office paneled oak finish; steam heat; electric and gas lights; cost \$10,000; architect will receive estimates. (Previously mentioned.)

N. C., Charlotte.—Charlotte Consolidated Construction Co., Edward D. Latta, president, purchased site on which to erect office building about 75x23 feet.

N. C., Edenton.—Bank of Edenton invites architects to submit plans and specifications for bank building; 25x56 feet; ordinary construction; concrete sidewalks; cost \$8000 to \$10,000. (Recently noted.)

Tex., Howland.—Howland State Bank, D. B. Shelton, president, awarded contract to Caviness & Harrison (care of bank) for erection of bank building; 25x50 feet; ordinary brick construction.

Va., Petersburg.—American Bank & Trust Co. (formerly Appomattox Trust Co.) appointed committee to secure plans and specifications and estimates of cost of bank building to replace burned structure. William L. Zimmer, Sr., is president; temporary offices in Mechanic Association Bldg. (Recently mentioned.)

CHURCHES

Ala., Birmingham.—Sixty-sixth Street Baptist Church, W. N. Swain, pastor, contemplates erecting edifice.

Ala., Bessemer.—African Methodist Episcopal Church, Rev. C. B. Mosely, pastor, has plans by W. A. Rayfield & Co., 10-11 Mason Bldg., Birmingham, Ala., for edifice; ordinary construction; cost \$5000.

Ala., Cullman.—First Baptist Church, Rev. M. L. Harris, pastor, has not definitely arranged plans for erection of edifice recently noted; may not begin construction for one year.

Ala., Montgomery.—Central Presbyterian Church is conferring with W. M. Cramer, New York, relative to plans for edifice to cost about \$50,000. Address The Pastor, Central Presbyterian Church.

Ark., Monticello.—New Zion African Methodist Episcopal Church, Rev. E. D. Miller, pastor, has plans by W. A. Rayfield & Co., 10-11 Mason Bldg., Birmingham, Ala., for edifice; ordinary construction; cost \$3000.

D. C., Washington.—Catholic Church will erect chapel at 3733 Paterson St. N. W.; one story; frame; cost \$3000; plans by Milburn, Helster & Co., Home Life Bldg., Washington.

Fla., Ocala.—Board of stewards of the Methodist Church plans erection of church and parsonage.

Ga., Commerce.—Presbyterian Church will erect edifice; building materials purchased; William Mize; chairman of building committee.

Ga., Maun.—African Methodist Episcopal Church, Rev. W. A. Shipp, pastor, has plans by W. A. Rayfield & Co., 10-11 Mason Bldg., Birmingham, Ala., for edifice; 30x70 feet; ordinary construction; cost \$1000.

Ga., Madison.—Methodist Church, Rev. J. H. Mashburn, pastor, plans erection of edifice to cost \$25,000 to \$30,000.

Ga., Savannah.—Epworth Methodist Church, Rev. Loy Warwick, pastor, adopted plans by H. W. Witcover or Savannah for edifice; English Gothic style of architecture; 39x100 feet; ordinary construction; steam heat; date of opening bids not set.

Ga., Valdosta.—Catholic Church will erect edifice. Address Rev. Father Reich, Albany, Ga.

La., New Orleans.—First Presbyterian Church, Dr. George H. Cornelison, pastor, contemplates erecting brick Sunday-school building; preliminary plans call for auditorium in center surrounded by classrooms to seat 250; total cost not to exceed \$15,000.

Mo., Webb City.—First Baptist congregation will erect addition to edifice; 20 feet square; two stories; will be used for club-rooms, pastor's study, etc.; partitions to permit its use as addition to auditorium, providing seating capacity of 800. Address The Pastor, First Baptist Church.

N. C., Lenoir.—Methodist congregation purchased site on which to erect edifice. Address The Pastor, Methodist Church.

Okla., Cleveland.—Presbyterian Church, Rev. J. A. Clark, pastor, will build edifice to cost \$3000; brick construction.

S. C., Greenwood.—First Baptist Church has appointed J. W. Spores chairman of committee to secure plans and specifications for Sunday-school room to cost \$8000.

N. C., Winston-Salem.—Methodist Protestant Church contemplates erecting edifice to cost \$15,000; J. R. Cummings, chairman Board of Trustees.

Tenn., Glendale.—Presbyterian Church, U. S. A., will open bids in April or May for erection of 40x50-foot edifice; ordinary construction; Sunday-school room to be separated from main auditorium by folding doors; furnace; gasoline and acetylene lighting; cost \$2500 to \$3000. Address proposals to E. J. Park, Cookeoka, Tenn.

Tenn., Johnson City.—Central Baptist Church contemplates erection of edifice; J. W. Houtz, chairman of building committee.

Tenn., Loretto.—Roman Catholic organization will build church; address Pastor of Roman Catholic Church.

Tenn., Ridgewood.—Baptist congregation has plans for edifice to cost \$2000. Address The Pastor, Baptist Church.

Tex., Fort Worth.—Hemphill Presbyterian Church, Rev. J. P. Hicks, pastor, contemplates erecting building.

Tex., Mercedes.—German Lutheran Emanuel's Church, Rev. E. Moebus, pastor, will erect edifice; brick; cost, about \$4000.

Tex., Taylor.—First Methodist Church contemplates erection of \$5000 addition to church. Address The Pastor, First Methodist Church.

Tex., Taylor.—First Presbyterian Church, Rev. Hugh W. Hoon, pastor, contemplates erecting edifice to cost \$25,000.

W. Va., Huntington.—Presbyterian congregation, represented by C. Russell Wyatt, will build church.

CITY AND COUNTY

Ala., Birmingham.—Hospital.—Jefferson county will probably vote on \$50,000 bond issue to erect wing to Hillman Hospital. Address County Commissioners.

Ala., Union Springs.—Library.—City plans erection of Carnegie library; cost \$10,000. Address The Mayor.

Ala., Gadsden.—Jail.—Etowah County Commissioners will erect \$25,000 jail; L. L. Herzberg, Judge of Probate Court, may be addressed. (Previously noted.)

Ga., Augusta.—Stockade.—City Council will receive bids until January 31 for material and erection of city prison; bids for both brick and reinforced concrete; certified check for \$250; plans and specifications at office of Nisbet Wingfield, City Engineer and Commissioner of Public Works, or of C. A. Maxwell, Hyer Bldg., Augusta. (Recently noted.)

Ga., Douglas.—Jail.—Coffee county plans erection of addition to jail; three stories; concrete reinforced with steel; Daniel Gaslin, County Commissioner.

Ga., Macon.—Bids received until January 26 for erection of engine-house at Washington and Georgia Aves., below Madison St.; J. R. Bowdye, chairman committee on fire.

Ga., Waycross.—City Hall.—Calvin W. Parker, alderman, is promoting erection of city hall.

Ky., Louisville.—Hospital.—Hospital Commission, John Chambers, engineer, will expend \$12,000 to \$15,000 for remodeling building at 517 S. 6th St. for temporary city hospital.

Miss., Tupelo.—City contemplates voting on issuance of \$10,000 of bonds for erection of city hall; D. W. Robins, Mayor.

Tex., Calvert.—City Hall.—City will vote in April on \$25,000 bond issue to erect city hall and other public improvements. Address The Mayor. (Recently noted.)

Va., Finca.—Town Council is reported to rebuild town hall recently reported burned; loss \$2500.

Va., Norfolk.—Fire Stations.—City plans expending \$15,000 to erect No. 2 fire station. W. T. Brooks is City Engineer.

COURTHOUSES

La., Lake Charles.—Calcasieu parish Police Jury will open bids February 17 for erection of courthouse; two stories and basement; contractors estimating are Geo. J. Glover of New Orleans, La.; W. C. Whitney of Beaumont, Tex.; Dalls Contracting Co. of Fort Worth, Tex.; G. C. Street, Jr., of Houston, Tex.; Caldwell Bros. of Abbeville, La.; and H. Koerner of Lake Charles. (Recently noted.)

La., Mansfield.—De Soto Parish plans voting on special tax to erect courthouse. Address Police Jury.

DWELLINGS

Ala., Birmingham.—Henry Lyon will erect two-story frame dwelling; cost \$3000.

Ala., Birmingham.—Pratt City Land & Improvement Co. will erect three two-story frame dwellings; cost \$4200.

Ala., Birmingham.—G. W. Papot will erect two two-story brick veneer residences; cost, \$5000 each.

Ark., Cave Springs.—Cave Springs Development Co. organized with \$50,000 capital stock to erect dwellings.

Ark., Little Rock.—J. A. Bowman will erect two-story frame dwelling; cost \$6000.

D. C., Washington.—G. B. Wilson is having plans prepared by A. P. Clark, Jr., for three-story frame and pebble-dash dwelling.

D. C., Washington.—J. Henry Prudy opened bids for erection of proposed residence at 14th and R Sts. N. W.; Page Construction Co., Hibbs Bldg., Washington, is lowest bidder; four stories; brick and stone; cost about \$75,000.

D. C., Washington.—Arthur Carr, 506 11th St. N. W., is receiving sub-bids for erection of two eight-room brick dwellings in Wisconsin Ave. Park.

D. C., Washington.—Dr. William C. Gwynn, 2236 O St. N. W., has plans by McNeill & McNeill, Colorado Bldg., Washington, for remodeling residence.

D. C., Washington.—F. MacAuliff has plans by A. B. Mullett & Co., Union Trust Bldg., Washington, for seven two-story brick dwellings at 1014-22 B St. S. E. and 145 to 151 11th St. S. E.; cost \$14,000; construction by owner.

Fla., Ocala.—Board of stewards of the Methodist Church plans erection of parsonage and church.

Fla., St. George's Island (not a postoffice). St. George Island Co., A. J. Smith, secretary, 128 Candler Bldg., Atlanta, Ga., will soon receive bids for erection of cottages in connection with development of health resort. (See "Land Developments.")

Ga., Augusta.—Alexander McDaniel will erect concrete dwelling.

Ga., Atlanta.—S. W. Sullivan will erect \$7500 dwelling.

Ga., Atlanta.—R. H. Williams will erect \$4000 dwelling.

Ga., Columbus.—Columbus Coca Cola Bottling Co. will erect dwelling; 8 or 10 rooms; ordinary construction; cost \$6000; day labor.

Ga., Savannah.—M. M. Stewart will erect residence.

Ga., Savannah.—Mrs. W. R. Lenken will erect residence.

Ky., Stearns.—Stearns Coal & Lumber Co. will build 40 miners' houses; construction begun; Justus Stearns of Ludington, Mich., is president.

Md., Baltimore.—John F. Coster has plans by J. F. Gerwig, 210 E. Lexington St., Baltimore, for dwelling on Park Heights Ave. near Ashburton Ave.; two and a half stories; frame; cost \$5000.

Md., Baltimore.—J. T. Miller, 221 N. Charles St., has plans by J. R. Forsythe, 232 St. Paul St., Baltimore, for seven residences on 29th St., between Charles St. and Maryland Ave.; three-story; brick and stone; cost, \$35,000.

Md., Baltimore.—Jos. L. Lippel, agent, 3 N. Fulton Ave., has plans by Henry J. Tinner, 314 N. Charles St., Baltimore, for six residences on Independence St.; brick; two stories; cost \$10,000.

Md., Baltimore.—Henry Williams, 605 Union Trust Bldg., is receiving bids for erection of residence on Charles-Street Blvd. near 29th St.; three stories; brick; cost about \$30,000; plans by E. L. Palmer, Jr., 408 Roland Ave., Roland Park, Md.; Roland Park Co., 408 Roland Ave., Roland Park, Md., is estimating. (Recently mentioned.)

Md., Baltimore.—Frank Novak, 2908 E. Jefferson St., will expend \$1000 to erect dwelling and store; 13x48 feet; ordinary construction; hot-air heat; gas and electric lighting; cement sidewalks; plans by Joseph F. Hirt, 2707 E. Jefferson St., Baltimore; construction by owner. (Recently noted.)

Md., Baltimore.—L. Di Stefano, Gay and Exeter Sts., has revised plans by J. F. Gerwig, 210 E. Lexington St., Baltimore, for seven dwellings on Park Heights Ave. near Allen Ave.; brick; two stories. (Previously mentioned.)

Md., Baltimore.—John J. Watson, 763 Calvert Bldg., is reported as planning to erect four bungalows on Cheston St. and Walbrook; cost \$4000 each.

Md., Baltimore.—Murray and Haynes will erect dwelling on northeast corner of Duvall and Chelsea Aves.; two and a half stories; frame; 24x33 feet; slate roof; hot-water heat; cost \$3000; construction begun.

Md., Baltimore.—Mrs. Bruce Cotton, Mt. Washington, Md., contemplates erection of residence on Charles-St. Boulevard; brick and stone construction; three stories; cost \$35,000.

Md., Catonsville.—Walter Grady, 734 Frederick Ave., will erect residence in East Catonsville.

Md., Govans.—Louis A. Young has plans by F. E. Beall, 213 St. Paul St., Baltimore, for 18 dwellings on Woodburn, Cleveland and Ravinshaw Aves.; two-story; brick; semi-detached; tin roof; hot-air heat; cost \$27,000.

Md., Westernport.—George Herboldshiner will erect double block dwelling.

Miss., Hattiesburg.—J. E. Davis is having plans prepared for residence; two stories; frame; cost, \$5000.

Miss., Yazoo City.—N. E. Warren will rebuild residence recently reported burned; loss \$5556.

Miss., Yazoo City.—Herbert Holmes will erect residence.

Miss., Yazoo City.—J. W. Gregory will erect residence.

Miss., Yazoo City.—W. F. Holmes will erect residence.

Mo., Kansas City.—James E. Baird, Station A., will erect 28x40-foot dwelling; stone and shingle; cost, \$6500. (Recently noted.)

Mo., St. Louis.—Davidson Bros. Improvement Co. will erect six two-story dwellings; cost, \$21,000.

Mo., St. Louis.—W. Kelly will erect two-story tenement-house; cost \$3000.

Mo., St. Louis.—R. K. Pretty will erect two-story tenement; cost \$3000.

Mo., St. Louis.—V. A. Chimberg will erect three-story tenement-house; cost \$14,000.

Mo., St. Louis.—J. Charles Mueller will erect three two-story tenement-houses; cost \$12,500.

Mo., St. Louis.—Florence Wagner will erect \$5000 residence.

Mo., St. Louis.—Edward J. Scholl will erect brick residence; cost, \$10,000.

Mo., St. Louis.—Geo. M. Barker will erect residence; cost \$7500.

Mo., St. Louis.—Louis I. McGeorg will erect \$8000 residence.

N. C., Statesville.—D. J. Craig will erect residence; red pressed brick; stone and terra-cotta trimmings; slate roof; porch on both sides; front and rear porches on second floor; steam-heating plant, laundry, etc., in basement; cost \$12,000 to \$15,000; R. L. Steele, Statesville, will superintend construction; plans by Wheeler & Stern, Charlotte, N. C. (See "Machinery Wanted.")

Okla., Oklahoma City.—C. P. Sites will erect two-story frame dwelling; cost \$3500.

Okla., Oklahoma City.—Commercial Investment Co. will erect one-story frame dwelling; cost \$3000.

Okla., Oklahoma City.—St. Anthony's Hospital will erect one-story concrete dwelling; cost \$3500.

Tenn., Knoxville.—Howard Cornick has plans by Albert E. Gredig, 405 Bank & Trust Bldg., Knoxville, for residence; brick veneer; colonial style; hot-water heat; electric lights; dwelling will be 45x65 feet; ordinary construction; will open bids about February 15.

Tex., Harlingen.—John D. Hill will erect residence.

Tex., Houston.—H. B. Jackson has plans by Banker & Co., Houston, for residence; nine rooms; stucco.

Tex., Richmond.—D. R. Peareson will erect residence.

Va., Roanoke.—S. B. Pace will erect residence; cost, \$12,000 to \$15,000.

Tex., Webster.—J. W. Keer of Sherman, Tex., will erect residence.

Va., Norfolk.—Fire Station.—Finance Committee and Public Improvement Committee approved and will recommend \$25,000 appropriation for erection of fire station at 12th and William Sts.

Va., Richmond.—Mrs. N. E. Riley will erect two-story brick dwelling.

Va., Roanoke.—Face & Markley will erect residence; capital stock \$3000; construction begun.

GOVERNMENT AND STATE

Ala., Montgomery.—Executive Mansion.—State is considering appropriation of \$50,000 for erection of Governor's mansion; Braxton B. Comer, Governor.

Okla., Oklahoma City.—Fair.—State Fair Association plans erection of additional buildings to cost about \$25,000; vehicle structure will be 165x200 feet, containing 21,000 square feet of floor space; equipped with electric lights, sewers and city water; cost about \$8000; building for exhibition of bees and culinary department will cost about \$3000; reclaim about 43 acres of timber land for exhibition purposes, and construct fence of wire and concrete about 3500 feet long.

W. Va., Charleston.—Postoffice.—Treasury Department, James Knox Taylor, supervising architect, Washington, D. C., is preparing new plans for postoffice; building will be 81x120 feet; colonial design; probably award contract by April 15; cost, about \$25,000.

Tex., Galveston.—Immigration Station. Proposals will be received at office of inspector in charge, Immigration Service, Galveston, Tex., until 2 P. M. February 11 for furnishing labor and materials incident to constructing building on Pelican Island, in harbor of Galveston, Tex., for use as immigration station. Copies of plans and specifications, with statement of conditions and limitations governing bidders, may be obtained upon application to Alfred Hampton, inspector in charge. (Recently mentioned.)

HOTELS

Ark., Stuttgart.—Philip Reinsch is having plans prepared for hotel; three stories; pressed brick; about 50 rooms; cost \$75,000.

D. C., Washington.—Royal Plaza Hotel Co. has plans by W. L. Stoddart, 30 W. 38th St., New York, for proposed hotel at North Capitol and E. Sts. N. W.; 26x120 feet; 36,000 square feet floor space; colonnade extending two-thirds entire length; first and second stories of Indiana limestone; second to eighth stories of brick; mansard tile roof with heavy copper crestings and dormers will crown ninth and tenth stories; central rotunda on ground floor 100x70 feet, surrounded by mezzanine floor; main dining room to seat 750 guests; 650 bedrooms; roof garden.

Fla., St. George's Island (not a postoffice). St. George Island Co., A. J. Smith, secretary, 128 Candler Bldg., Atlanta, Ga., will receive bids soon for erection of hotel in connection with development of health resort. (See "Land Developments.")

Ga., Atlanta.—James E. Hickey is reported to erect hotel on Mitchell St.

Ga., Gainesville.—H. H. Dean is reported as contemplating erection of hotel.

Ga., Chalybeate.—Chalybeate Springs Co., Frank J. Cohen, vice-president and Manager, recently noted incorporated with \$250,000 capital stock, will erect 75-room hotel; ordinary construction; heating not determined; electric lighting; electrical sidewalk lights; cost \$20,000; architect not selected; main office, Atlanta, Ga., Box 829. (See "Machinery Wanted.")

La., Monroe.—Hotel Monroe has plans by W. A. Stanton, Vicksburg, Miss., for annex to hotel; three stories; 50 rooms; classic colonial style; individual telephones and baths and elevators.

Miss., Browns Wells, R. F. D. Wesson.—J. F. Barnes, Jackson, Miss., is reported to have contract for erection of \$25,000 hotel.

N. C., Wilmington.—Tarrymore Hotel Co., B. O. Stone, secretary-treasurer, will expend \$50,000 in improvements to hotel; 250 rooms. (Recently noted.)

Okla., Hugo.—C. E. and A. M. Webb will erect hotel; 50 bedrooms; steam heat; electric elevators.

Okla., Hugo.—Company organized with \$50,000 capital stock; E. H. Foster, president; J. W. Davis, vice-president; M. P. McDonald, secretary-treasurer; will erect three-story hotel; 100 rooms; steam heat.

Tenn., South Pittsburgh.—R. M. Payne is interested in erection of hotel; equipped with private lighting plant, sewerage and water systems.

Tex., Fort Worth.—Winfield Scott plans erection of Winfield Hotel to replace Hotel Worth and Metropolitan Hotel; 450 rooms; connected by underground tunnel; drill artesian well 1250 feet deep; awarded contract to H. H. Yorty for construction of tunnel 25 feet under ground and five feet in diameter for conveying water from one hotel to other.

Tex., Houston.—Hugh Hamilton plans, it is reported, erection of hotel to cost \$300,000.

Tex., Houston.—C. H. Milby is having plans prepared by Cooke & Sons, Houston, for hotel at Travis and Texas Ave.; fireproof; six stories; 75x120 feet; about 200 apartments; steel pilasters or pillars from basement will support heavy upper stories.

Tex., Orange.—Holland Hotel Co. awarded contract to Southern Engineering (Miller Bros. & Polk), Orange, for improvements to hotel.

Tex., Southon, P. O. at San Antonio.—M. A. Kuben will erect hotel; 50x100 feet.

W. Va., Parkersburg.—New Monroe Hotel, Mr. Evans, proprietor, is receiving plans for erection of 18-room addition on Court Square; also plans installation of electric elevator.

MISCELLANEOUS

Ala., Selma.—Sanatorium.—Dr. F. C. DuBose, Vaughn Memorial Hospital, will remodel building 86x43 feet as sanatorium to replace structure recently noted burned; three stories; ordinary construction; hot-water heat; electric conduit system for lighting; hand passenger elevator; cost \$12,000; bids opened January 20.

D. C., Washington.—Memorial Auditorium. George Washington Memorial Association, Chas. J. Bell, trustee, has fund of \$250,000 to construct auditorium; contemplates expenditure of \$1,000,000. (Previously mentioned.)

Ga., Augusta.—Hospital.—Committee from Medical College faculty and committee, Dr. J. M. Caldwell, chairman, is formulating tentative plans for erection of hospital to cost \$50,000 and for remodeling orphan asylum building at cost of \$50,000.

Ga., Savannah.—Hospital.—Georgia Infirmary, Dr. Craig Barrow, superintendent, contemplates erecting addition to hospital.

Ga., Waycross.—Hospital.—Atlantic Coast Lane Railway, E. B. Pleasants, chief engineer, Wilmington, N. C., has, it is reported, appropriated \$10,000 for improvements to hospital.

Miss., Gulfport.—Restaurant.—Harry Hoyle, P. O. Box 945, New Orleans, La., awarded contract for erection of one-story brick restaurant; ordinary construction; cost \$1000; plans by Chevally & Fursdon, Gulfport. (Recently noted under "Stores.")

Mo., Kansas.—City.—Barn.—People's Ice & Storage Co. will erect concrete barn for 250 horses. (See "Ice and Cold-storage Plants.")

N. C., Charlotte.—Laboratory.—Charlotte Sanatorium will erect clinical and pathological laboratory; Dr. Addison G. Brenzler will be in charge of department; Hunter & Gordon, Realty Bldg., Charlotte, architects.

Tenn., Hill City.—Sanatorium.—Tuberculosis Sanatorium Association, Mrs. Chaplin, president, Chattanooga, Tenn., will erect sanatorium; cost \$30,000; C. E. Bearden, Chattanooga, Tenn., will prepare plans.

Tenn., Nashville.—Orphans' Home.—Tennessee Baptist Orphans' Home, W. J. Stewart, superintendent, has not selected architect to prepare plans for home; will comprise two or more buildings; size not determined; ordinary construction; hot-air or steam heat; lighting not decided; cost \$3500 each. (Recently noted.)

Tex., San Antonio.—Clubhouse.—Travis Club, Albert H. Danforth, president, is having plans prepared by Hervey L. Page Company of San Antonio for clubhouse; brick; fireproof; site 150x90 feet; estimated cost \$50,000; expected to award contract by February 15.

Va., Richmond.—Confederate Memorial.—Confederate Memorial Association, J. Taylor Ellison, president, selected plans for institute; 60x169 feet and 50 feet high; one story; 16 galleries grouped around central hall; fireproof construction; face of Southern granite up to floor line; Southern marble above line; Doric design; estimated cost, \$150,000; architects, Bissell & Sinkler, 805 Bailey Bldg., Philadelphia, Pa. (Previously mentioned.)

W. Va., Huntington.—Clubhouse.—Cabell Country Club leased 30 acres of land on which to erect clubhouse costing \$15,000 to \$20,000; improvements to grounds, etc., will make total expenditure about \$30,000.

RAILWAY STATIONS

Ala., Mobile.—New Orleans, Mobile & Chicago Railroad, W. F. Owen, general manager, Mobile, Ala., has, it is reported, submitted plans to local contractors for estimates on erection of proposed combined passenger and freight station.

Mo., Cape Girardeau.—St. Louis & San Francisco Railroad Co., F. G. Jonah, chief engineer of construction, St. Louis, Mo., will not for several years begin erection of passenger station recently noted.

Okla., Tulsa.—Atchison, Topeka & Santa Fe Railway Co., E. P. Ripley, president, Chicago, Ill., will, it is reported, erect depot to cost \$240,000.

Tenn., Chattanooga.—Nashville, Chattanooga & St. Louis Railway Co., H. McDonald, chief engineer, Nashville, Tenn., has not determined upon plans for rebuilding burned train shed recently reported.

Tex., Bellville.—Gulf, Colorado & Santa Fe Railway, F. Merritt, chief engineer, Galveston, Tex., will, it is reported, erect brick passenger station and remodel present station as freight depot.

Tex., Hillboro.—Missouri, Kansas & Texas Railway, A. M. Acheson, acting chief engineer, Dallas, Tex.; Trinity & Brazos Valley Railway, J. W. Robins, general manager, Houston, Tex.; and St. Louis Southwestern Railway of Texas, W. T. Eaton, chief engineer, Tyler, Tex., have been ordered by Railroad Commission to erect union depot; cost \$10,000 to \$15,000.

Tex., Pecos.—Texas & Pacific Railway Co., R. S. Wathen, chief engineer, Dallas, Tex., will erect concrete and brick depot; cost \$50,000 to \$60,000; construction by company's force. (Recently noted.)

Tex., Port Arthur.—Southern Pacific Railway will, it is reported, erect \$20,000 depot; W. M. Hobbs, New Orleans, La., is general superintendent.

Tex., Terrell.—Texas & Pacific Railway Co., R. S. Wathen, chief engineer, Dallas, Tex., will rebuild burned depot; 80x32 feet; brick and concrete; construction by company's force. (Recently noted.)

Va., Covington.—Chesapeake & Ohio Railway, F. I. Cabell, chief engineer, Richmond, Va., will, it is reported, erect passenger station.

W. Va., Charleston.—Kanawha & West Virginia Railroad, G. S. Plumley, engineer, Charleston, W. Va., will, it is reported, erect passenger station.

SCHOOLS

D. C., Washington.—Cuno H. Rudolph, John A. Johnston and Wm. V. Judson, Commissioners D. C., will soon advertise for bids for erection of proposed Normal Training School at 11th and Harvard Sts. N. W.; two stories and basement; cost about \$250,000.

D. C., Washington.—Cuno H. Rudolph, John A. Johnston and Wm. V. Judson, Commissioners D. C., will receive bids until February 3 for erection of 12-room school at 8th and T Sts. N. W.; plans, specifications, forms of proposals at office of chief clerk, Engineer Department, Room 427 District Bldg., Washington, or may be had on deposit of \$10; has appropriation of \$85,000 for building alone.

Fla., Tallahassee.—Board of Control will received sealed bids at Leon Hotel until 9 A. M. February 4 for erection of mechanic arts building, hospital and agricultural building for Florida Agricultural and Mechanical

College; each bid must be accompanied with certified check for \$200, and each heating bid for \$100, made payable to P. K. Yonge, chairman; drawings and specifications may be obtained by depositing check for \$25 with W. A. Edwards, architect, 632 Candler Bldg., Atlanta, Ga.; subcontractors wishing to obtain drawings and specifications are required to deposit \$10 with architect; usual rights reserved.

Ga., Glenville.—City will open bids about February 28 for erection of school building; two stories; 60x90 feet; cost \$10,000. Address The Mayor. (Recently noted to vote on issuance of bonds.)

Ga., Doerun.—City voted \$500 bond issue to erect school. Address The Mayor.

Ga., Rome.—Shorter College, A. W. Van Hoose, president, will expend \$250,000 to erect five buildings, including academic and dormitory buildings; 50x200 feet; three stories each; fireproof construction; walls of brick; columns, beams and floors reinforced concrete; slate roof; galvanized cornice; steam heat; electric lighting; two small freight elevators; plans by W. T. Downing, Atlanta, Ga.; date of opening bids not set; address proposals to John A. Pierce. (Contracts recently incorrectly noted awarded.)

La., Baton Rouge.—East Baton Rouge Parish School Board opened bids for erection of school in Seventh ward; Brown & Hubbs, Baton Rouge, are lowest bidders and will probably receive contract.

La., Convent.—Jefferson College awarded contract to James Geary, New Orleans, La., for erection of proposed science building; two stories; brick; slate roof; plans by Andry & Bendoragale, New Orleans, La.

La., Independence.—Tangipahoa Parish Police Jury plans voting on special tax to erect \$25,000 school; steam heat; brick construction.

La., Houma.—School District No. 5, Terrebonne parish, voted January 10 for issuance of \$10,000 of bonds for erection of school building; John M. Foote, school treasurer. (Recently noted.)

La., New Orleans.—Dunbar Normal Industrial and Agricultural School for Negroes is being organized by Jos. Wheless (president), Robt. L. Gurney, Anthony Ittner and others; plans purchase of 1600 acres of land and erection of school.

La., New Orleans.—City has plans by E. A. Christy, 21 City Hall, New Orleans, for high-school building; 32 classrooms, auditorium, etc.; ordinary construction; cost \$200,000; bids not advertised; contract will be general covering heating, plumbing, etc. (Previously noted.)

Miss., Cleveland.—Bollivar County Agricultural High School trustees, W. G. Hordee, secretary, will probably open bids February 16 for erection of academic and two dormitory buildings; 60x150 feet; brick; stone-front effect; steam heat; electric lighting; cost \$25,000; plans by Wm. G. Drago, New Orleans, La. Address W. G. Hordee. (Recently noted.)

Miss., Mendenhall.—City will soon award contract for erection of proposed agricultural high-school building; cost, \$8000. Address The Mayor.

N. C., Asheville.—City plans issuance of \$50,000 of bonds for school improvements. Address The Mayor.

N. C., Charlotte.—Biddle University has plans by Hunter & Gordon, Charlotte, for Carnegie Library; cost \$12,000 to \$15,000.

N. C., Charlotte.—City contemplates voting on issuance of \$150,000 of school bonds; T. W. Hawkins, Mayor.

N. C., Concord.—Stonewall Jackson Manual Training & Industrial School will expend \$30,000 to erect administration building; 78x86 feet; three stories; to contain about 26 offices, rooms, etc.; ordinary construction; steam heat; electric lighting; day labor; plans by Louis H. Asbury, Charlotte, N. C. (Recently noted.)

N. C., Greensboro.—Greensboro Female College will expend \$25,000 to erect dormitory; ordinary construction; low-pressure steam heat; electric lighting; plans by Hook & Rogers, Charlotte, N. C.; date of opening bids not set. (Recently mentioned.)

N. C., Hendersonville.—School trustees are considering erection of \$15,000 school.

N. C., West Durham.—Durham County Commissioners will erect \$15,000 school building.

Okla., Enid.—William Carey College incorporated; will erect administration building, two dormitories and two other buildings; cost of buildings, \$100,000.

S. C., Williston.—School Board will probably open bids February 15 for erection of high-school building; T-shaped; 76x72 feet; brick; six classrooms and auditorium; steam

heat; electric lighting; cost \$12,000; plans by Sayre & Baldwin, Anderson, S. C. (Previously noted.)

Tenn., Binghamton.—City plans issuance of \$30,000 worth of bonds for school and sewer improvements. Address The Mayor.

Tenn., Nashville.—Martin College, W. T. Wynn, president, plans erection of \$20,000 dormitory building.

Tex., Dickens.—City will have new plans ready for bids for erection of proposed school about February 10; plans and specifications from Elmer G. Withers, architect, Stamford, Tex., or Charles Jay, Dickens. (Recently noted.)

Tex., Houston.—City will rebuild Rusk school recently burned; 16 to 20 rooms; brick or reinforced concrete; P. W. Horn, superintendent of schools. (Recently noted.)

Tex., San Antonio.—Bexar County Commissioners plan erection of school in Alamo Heights; brick.

Tex., Stephenville.—Selden School District will erect \$3000 school building; address C. H. Poenslot for further information. (Recently noted to have voted issuance of \$3000 of bonds.)

Tex., Mathis.—Mathis School District voted issuance of \$12,000 of bonds to erect brick school. Address District School Trustees.

Tex., Waxahachie.—City will vote on issuance of \$12,000 bonds for ward schools. Address The Mayor.

Va., Danville.—School Board will receive bids until February 10 for erection of school to replace Loyal St. school; 13 classrooms, each to seat 40 pupils, principal's office, retiring-room, and auditorium to seat 400 to 450 people; heating plant, lavatories, etc., in basement; total cost (including old building), \$25,000 to \$30,000, including heat, light and plumbing; further information from superintendent of schools or E. K. Jones, chairman of School Board.

Va., Danville.—School Board will erect 14-room school building; cost \$35,000; architect not selected. (Common Council recently noted recommending appropriation of \$30,000.)

Va., Suffolk.—City plans issuance of \$40,000 of bonds to erect one and possibly three schools. Address The Mayor.

STORES

Ala., Birmingham.—T. G. Barate will erect three-story brick store; cost \$10,000.

Ala., Birmingham.—Louis Plitz, 19th St. and Second Ave., will probably erect eight-story store building; cost \$100,000.

Ala., Mobile.—W. L. Truitt estate will probably erect building to replace structure recently reported collapsed; cost \$10,000.

Ala., Jackson.—Atwood & McKissack will open bids February 10 for erection of store building; 43x45 feet; ordinary construction; hot-air heat; cost \$10,000; plans by W. A. Rayfield & Co., 10-11 Mason Bldg., Birmingham, Ala.

Ark., Blytheville.—Glenn Drug Co. will rebuild store building recently reported burned; two stories; 30x90 feet; ordinary construction; electric lighting; cost \$8000 to \$10,000; architect not employed.

Ark., Hamburg.—S. B. Savage is interested in erection of store building.

D. C., Washington.—James R. Durity, 365 12th St. N. W., has plans by A. H. Jouvonal, Washington, for two-story brick and stone store building at 1235 H St. N. E.; construction by owner.

D. C., Washington.—E. M. Dulin, 1270 New Hampshire Ave. N. W., is taking sub-bids for erection of two-story store at 2d St. and Rhode Island Ave. N. W.

D. C., Washington.—W. H. Herriman has plans by A. H. Beers, 1342 New York Ave. N. W., Washington, for store and apartment building. (See "Apartment-Houses.")

Fla., Jacksonville.—Geo. A. Carroll and associates will erect business building; five stories; fireproof.

Fla., Pensacola.—Wm. S. Keyser plans erection of two or three story store building.

Fla., St. Augustine.—S. H. Kress & Co., 336 Broadway, New York, plan erection of two-story fireproof business building.

Ga., Atlanta.—Samuel H. Inman will rebuild business building at 44-46 Mitchell St.; reported burned; loss \$12,000.

Ga., Atlanta.—King Hardware Co. has plans by P. Thornton Marye, Atlanta, for improvements to store building at Peachtree and Pryor Sts., consisting of additional story to one portion, erection of five-story brick mill construction building to replace another portion, etc.; cost \$50,000.

Ga., Tifton.—J. J. Golden has plans by W. A. Edwards, 632 Candler Bldg., Atlanta, Ga., for store and office building; 64x100 feet;

steam heat; electric lighting; freight elevator; cost \$20,000. (Previously noted.)

Ky., Louisville.—F. H. Yates will rebuild business block recently reported burned; concrete block; gas lighting; cost \$3000 to \$4000; construction begun.

La., New Orleans.—United China & Glass Co. leased building at Fulton and Common Sts. and will expend \$18,000 for improvements.

La., New Orleans.—F. W. Lambert has plans by Morney & Boettner, New Orleans, for alterations and addition to building and erection of two-story building; slate roof; electric lights.

Md., Baltimore.—Fineman & Goldsmith, 218 N. Eutaw St., have plans by Louis Levi, 610 American Bldg., Baltimore, for alterations and a two-story addition to 218 N. Eutaw St.; brick; steam heat; gas and electric lights; plumbing; architect will receive bids in a week.

Md., Baltimore.—Baltimore Bargain House, Jacob Epstein, proprietor, 204-220 W. Baltimore St., is having plans and specifications prepared for proposed store building at Baltimore and Liberty Sts.; details not determined; the architect is Joseph Evans Sperry, 406 Calvert Bldg., Baltimore. (This report supercedes all previous statements as to this building; previous reports were not correct.)

N. C., Greensboro.—R. L. Vernon of Charlotte, N. C., will erect business building to replace structure recently reported burned; cost \$5000.

Okl., Hobart.—L. E. Sparks will erect business building to replace burned structure.

Okl., Tulsa.—R. T. Daniel will erect store building; three stories; foundation to support four additional stories; fireproof; terra-cotta, steel and cement; only wood used will be balcony; front doors and lower floor will be wood over cement; high-speed elevator; steam heat; sides almost entirely of plate glass.

Okl., Tulsa.—R. T. Daniel will erect store building; concrete and steel; fireproof; foundation to support six additional stories.

S. C., Batesburg.—L. M. Mitchell is having plans prepared by Shand & Lafaye, Columbia, S. C., for store building.

S. C., Batesburg.—L. M. Mitchell will erect store building; two stories; 39x160 feet.

Tenn., Knoxville.—Nathan B. Kuhlman and F. B. Stuart will erect three-story brick store and office building.

Tex., Bastrop.—Pearcy & Booth will erect brick store building and an additional story to present structure.

Tex., Bastrop.—Pearcy & Booth will erect two-story brick business building.

Tex., Bastrop.—W. B. Ransome will erect several brick buildings.

Tex., Elgin.—Texas Hardware & Supply Co. will erect store building; frame; 24x64 feet; full glass front.

Tex., Glen Rose.—C. C. Hamie awarded contract to A. T. Robinson of Aspermont, Tex., for erection of store building; stone construction.

Tex., Mexia.—J. S. and B. S. Smith and J. F. Denning will erect store; plate-glass front; two stories; brick; construction by Mr. Denning.

Tex., Mercedes.—Henry Katz of San Antonio, Tex., and J. Kaplan of Mercedes will erect store building; two stories; 40x120 feet; plate-glass front; pressed-brick construction.

Tex., Sweetwater.—Lang Aycock has plans by Parry & Spicer, Sweetwater, for store building; two stories; pressed brick and cut stone; electric elevator; 50x100 feet.

Tex., Taylor.—R. C. Briggs will erect business building; two stories; brick.

Va., Fincastle.—S. B. Crush will rebuild store building recently reported burned; ordinary construction; plans not determined; construction will not begin for several months.

Va., Norfolk.—Edward Nicolson has plans by Rosell Edward Mitchell, Norfolk, for three-story store building; contractors estimating are: E. Perry, A. J. Proescher, O. M. Casperson, Walker Construction Co., W. J. Brent and R. B. Dardon.

Va., Portsmouth.—Henry Kirn has plans by B. F. Mitchell, Norfolk, for store and office building; three stories; 110x70 feet; cost, \$30,000; lower floor for stores; upper floors for offices.

Va., Richmond.—L. Z. Moris will erect two-story brick store and warehouse; cost, \$15,000.

Va., Roanoke.—H. E. Jones will erect three-story brick store building; cost \$6000.

Va., Roanoke.—H. R. Jones will erect store building; cost \$6000.

THEATERS

Fla., Inverness.—Ancient Free and Accepted Masons will convert second floor of temple (in course of construction) into opera house.

Md., Baltimore.—Empire Theater Co., represented by Geo. W. Rife, 1 N. Calvert St., has plans by W. H. McElfrick, Philadelphia, Pa., for theater at 311-17 W. Fayette St.; brick and concrete; fireproof; three stories; 165x100 feet; cost \$100,000; Otto G. Simonson, American Bldg., Baltimore, associate architect; architects will receive bids February 1. (Previously noted.)

Md., Baltimore.—A. Lowther Forrest, Hoffman Bldg., is preparing preliminary plans for a hippodrome; location not decided.

Mo., St. Louis.—Middleton Theater Co. will expend \$55,000 for improvements to theater.

Va., Norfolk.—St. Joseph Catholic Church is having plans prepared by B. F. Mitchell, Norfolk, for theater and clubhouse; three stories; brick.

WAREHOUSES

Fla., McIntosh.—C. E. Bateman will erect warehouse.

Md., Baltimore.—Niagara Gypsum Block Co. will erect warehouse at southeast corner Appleton and Winchester Sts.; one story;

corrugated iron; asbestos felt roof; 50x58 feet; cost \$1500.

Mo., Kansas City.—Deere & Co., Moline, Ill., contemplate erection of warehouse; plans not determined. (Recently noted.)

S. C., Anderson.—People's New Furniture Co. will build warehouse. (See "Machinery Wanted.")

S. C., North Augusta.—North Augusta Warehouse & Fertilizer Co., J. C. Lamar, president, will erect cotton warehouse and fertilizer plant. (See "Fertilizer Factories.")

Tenn., Chattanooga.—Bryan Transfer Co., 5th and Broad Sts., will erect warehouse; two stories with carrying capacity for five additional stories; 45x136 feet; mill construction; cost \$4000; plans by C. E. Bearden, Chattanooga; day labor.

Va., Relee.—Relee Storage Warehouse Co. incorporated with \$50,000 capital stock; Henry C. Sheridan, president, 901-906 Evans Bldg.; Daniel Fraser, vice-president, 1626 P St. N. W.; both of Washington, D. C.; W. G. Carter, secretary, Chevy Chase, Md.; has let contract for erection of storage tanks for oil.

W. Va., Piedmont.—E. J. Fredlock Manufacturing & Building Co. is proceeding with erection of storage building and barn (recently noted); 40x80 feet; mill construction; cost, \$2500; plans and construction by owner.

BUILDING CONTRACTS AWARDED

APARTMENT-HOUSES

Ark., Little Rock.—Menton Real Estate Co. awarded contract to L. Collamore, Little Rock, for erection of apartment-house; buff pressed brick; white mortar and white stone trimmings; 12 apartments; cost \$35,000; plans by J. M. Whitehead, Little Rock. (Recently noted.)

Ark., Little Rock.—Jos. Lyons and Gabe Rieth awarded contract to Stewart-McGehee Company, Little Rock, for erection of apartment and store building; two stories; brick; first floor for stores; upper floor for apartments.

D. C., Washington.—P. Fersinger has contract for apartment-house for J. L. Koib, 923 New York Ave. N. W.; will receive sub-bids; two stories; brick; plans by Milburn, Heister & Co., Home Life Bldg., Washington.

S. C., Columbia.—Earnest G. Cook awarded contract to F. D. McNulty, Columbia, for erection of New Marlboro apartment-house; three stories; six six-room apartments; hot-water heat; gas and electric lights; safety vault in each apartment.

Tenn., Memphis.—Elmer Harris, Union Bank & Trust Co., acting for clients, awarded contracts through John Galsford, architect, Royal Bldg., Memphis, for erection of apartment-house; three stories; ordinary construction; colonial style; 30 apartments, containing 132 rooms, not including baths; Memphis pressed brick; steam heat; each apartment to be equipped with vacuum cleaning system and separate porch; cost \$50,000. (Recently noted.)

W. Va., Fairmont.—Terrace Apartment Co. awarded contract to Dowling & Bretnitz, Marietta, Ohio, for erection of apartment-house; cost \$35,000; plans by Holmboe & Laferty, Clarksburg, W. Va.

W. Va., Glenova, P. O. Wheeling.—William Marsh awarded contract to H. W. Fair, Wheeling, for erection of three-story addition to apartment-house.

ASSOCIATION AND FRATERNAL

La., Morgan City.—Doric Lodge, Ancient Free and Accepted Masons, will expend \$5390 to erect Masonic hall; 38x34 feet 4 inches; ordinary construction; electric lighting; plans by Favrot & Livaudais, New Orleans, La.; contract recently noted awarded to Caldwell Bros., Abbeville, La.

S. C., Columbia.—Young Men's Christian Association awarded contract at \$98,000 to Central Carolina Construction Co. of Greensboro, N. C., for erection of building, exclusive of heating, plumbing and wiring; four stories and basement; gymnasium 45x70 feet and 25 feet high; natatorium; fireproof construction; reinforced concrete floors, supported on steel beams; iron stairways; roof covered with promenade tile; electric passenger elevator; heating, wiring and plumbing to cost about \$25,000 additional. (Recently noted.)

BANK AND OFFICE

D. C., Washington.—H. A. Seymour, 913 F St. N. W., awarded contract to John McGregor, 729 12th St. N. W., Washington, for erection of two-story brick office building at

DWELLINGS

Ark., Argenta.—Charles Schneider awarded contract to C. H. Davis, Argenta, for erection of four cottages.

D. C., Washington.—Butler & Banes awarded contract to W. P. Lipscomb & Co., 1405 F St. N. W., Washington, for erection of four-story brick and stone dwelling at 1703 15th St. N. W.; cost \$42,000; plans by J. H. De Silbaur, Hibbs Bldg., Washington.

D. C., Washington.—John Henry Purdy awarded contract to W. P. Lipscomb & Co., 1405 F St. N. W., Washington, for erection of four-story brick and stone dwelling at 1703 15th St. N. W.; cost \$42,000; plans by J. H. De Silbaur, Hibbs Bldg., Washington.

D. C., Washington.—Butler & Banes awarded contract to J. F. Levy, Washington, for four dwellings at 2615-21 Georgia Ave. N. W., cost \$6000, and two at 1021 and 1022 Irving St. N. W., cost \$4000; two stories; brick; plans by C. E. Webb, Warder Bldg., Washington.

Ky., Lexington.—James S. Helm will expend \$25,000 to erect dwelling; 40x32 feet; hot-water heat; native gray limestone; rubble masonry; acetylene lighting; plans by Richards, McCarty & Bulford, Columbus, O.; contract recently noted awarded to Congleton Lumber Co., Lexington.

Md., Baltimore.—Joseph Berman, 231 Courtland St., awarded contract to C. M. Wartman, Clement and Richardson Sts., Baltimore, for erection of 10 dwellings on Cambridge St. near Windsor St.; three stories; brick; 14x15 feet; tin roof; cost \$10,000; plans by Callis & Callis, 2000 St. Paul St., Baltimore.

Md., Baltimore.—Julius Will, Pratt St. and Third Ave., awarded contract to Isidor Bucher, 3413 E. Pratt St., Baltimore, for store and dwelling at 2016 Fleet St.; three stories; 18x41 feet; brick; cost \$2500.

Mo., St. Louis.—Frank Hinchey awarded contract to erect \$6300 residence.

N. C., Raleigh.—N. L. Walker awarded contract to York & Cobb (address care of Mr. Walker) for erection of two-story dwelling; seven rooms; cost \$4500; contracts for materials not let.

N. C., Winston-Salem.—Mrs. John Coleman awarded contract to A. H. Walls (address, care of Mrs. Coleman) for erection of six dwellings; four to have four rooms, two six rooms; frame; six-room dwellings to be lighted by electricity; cost \$4000.

S. C., Hannockburn.—J. Saunders McKenzie awarded contract to Benj. F. Turner, Florence, S. C., for erection of residence; two stories; 16 rooms; water-works; acetylene gas; cost \$10,000; plans by W. J. Wilkins, Florence, S. C.; construction begun.

Tex., Bryan.—J. E. Butler will erect \$3000 dwelling; 44x62 feet; ordinary construction; plans by Associated Architects, Dallas, Tex.; contract recently noted awarded to M. N. Myerlambers, Bryan.

Tex., Victoria.—Edwin C. Goldman awarded contract to Richard Lovejoy, Victoria, for erection of five-room cottage; cost \$2300; plans by Hull & Praeger, Victoria.

Tex., Victoria.—W. H. Smith awarded contract to Henry Schrader (address care of Mr. Smith) for erection of proposed dwelling; two stories; ordinary construction; cost \$5000; plans by Hull & Praeger, Victoria.

Va., Norfolk.—Geo. W. Payne awarded contract to Welborne & Richardson, Roanoke, for erection of two dwellings; eight rooms; cost \$2500 each; construction begun.

Va., Norfolk.—W. W. McGehee awarded contract to J. W. Saunders, Norfolk, for erection of two frame dwellings; cost \$5000 each.

Va., Richmond.—B. H. Melton will erect two-story brick dwelling; nine rooms; brick; hot-water heat; electric lighting; granite sidewalks; cost \$6000; plans by C. W. Hicks, Richmond; contract awarded to N. H. Davis of Richmond; heating contract not awarded.

Va., Roanoke.—Greene Memorial Methodist Church will expend \$7000 to erect parsonage; two stories; 37x55 feet; pressed-brick veneer; oak and yellow-pine finish; hot-water heat; gas and electric-lighting; slate roof; plans by Huggins & Bates, Roanoke; contract recently noted awarded to Shockey & Field, 506 McCarthy St., Roanoke.

HOTELS

Ark., Blytheville.—Blytheville Hotel Co. awarded contract for repairing damages to hotel recently reported burned; cost \$2000.

Fla., Hampton Springs.—J. W. Oglesby, Quilman, Ga. (previously noted to have purchased controlling interest in hotel and water privileges of Hampton Springs) awarded contract for improvements to building; 60x250 feet; 65 rooms; two stories; frame; mill construction; steam heat; elec-

CHURCHES

Ark., Atkins.—Methodist Episcopal Church South awarded contract to W. A. Wilson, 1508 Pine St., Little Rock, Ark., for erection of edifice; 62x62 feet; cost \$7500; plans by R. P. Morrison, Little Rock, Ark.

Ga., Savannah.—Christian Church, Rev. J. A. Erwin, pastor, Bolton and Howard Sts., will have plans prepared by H. W. Witcover of Savannah for enlargement and remodeling of edifice; cost \$10,000; structure will be 50x75 feet; ordinary construction; steam heat; contract awarded to A. A. Artley, Savannah.

Ga., Waycross.—Pine View Baptist Church, Rev. G. E. Jones, pastor, awarded contract for erection of church.

La., New Orleans.—Central Baptist Church, Rev. F. C. Flowers, pastor, awarded contracts for erection of Sunday-school building; 71x40 feet; ordinary construction; heat by stoves temporarily; steam heat later; lighting not decided; cost \$10,000; plans by Francis J. MacDonnell, supervising architect, 829 Hennin Bldg., New Orleans; material purchased. (Previously noted.)

Tex., San Antonio.—Prospect Hill Baptist Church, Rev. T. V. Neal, pastor, has plans by and awarded contract to A. A. Evans, 1822 Monterey St., San Antonio, for erection of edifice; 80x110 feet; two stories and basement; mill construction; lighting plant will cost \$300; cost of edifice \$25,000. (Recently noted as Prospect Hill Methodist Church.)

CITY AND COUNTY

D. C., Washington.—Engine-house.—Commissioners awarded contract at \$22,527 to Skinner & Garrett, Evans Bldg., Washington, for erection of engine-house at Pennsylvania Ave. and 28th St.; stone entrance; plans by Averill & Adams, Union Trust Bldg., Washington. (Recently noted.)

La., New Orleans.—Fire Station.—City awarded contract to John Minot, New Orleans, for erection of fire station on Louisiana Ave., between Libert and Howard Sts.; brick and cement; stucco finish; concrete foundation; cost \$14,000. (Recently noted.)

Okl., El Reno.—City Hall.—City awarded contract at \$35,875 to Connolly Construction Co., El Reno, for erection of city hall.

Va., Norfolk.—Police Headquarters.—Board of Control awarded contract at \$44,273 to Richardson & Sons, Hampton, Va., for erection of police headquarters; plans by J. Kevan Peebles, 723 Law Bldg., Norfolk. (Recently noted.)

COURTHOUSES

W. Va., Elizabeth.—Wirt County Commissioners awarded contract to B. S. Smith Fireproof Construction Co., 817 14th St. N. W., Washington, D. C., for erection of courthouse and jail at \$48,400; plans by B. F. Smith, 817 14th St. N. W., Washington, D. C. (Previously reported.)

tric lighting; hand elevator; will install ice machine and dynamo for 800 lights; cost \$36,000; plans by W. B. Camp, Jacksonville, Fla. (See "Machinery Wanted.")

Tex., Marlin.—Torbett & Cheeves will expend \$10,000 to erect four-story hotel, two-story bathhouse, two-story power-house and laundry; ordinary construction; heating, lighting, sidewalks and elevator under separate contracts; plans by Scott & Pearson, Waco, Tex.; contract recently noted awarded to Southern Construction Co., Dallas, Tex.; L. A. Stevenson, Dallas, Tex., is supervising construction.

MISCELLANEOUS

N. C., Wilmington.—John W. Harper awarded contract to W. B. Devill, Wilmington, for erection, and to Doshier Bros. for plumbing, of pavilion at Carolina Beach to replace burned structure; 150x50 feet, with annex 30x40 feet; 7200 square feet floor space; 456 linear feet of veranda 15 feet wide; bungalow type; six feet above ground; electric lights; plans by H. E. Bonitz, Wilmington. (Lately noted.)

Tex., Galveston.—Amusement Palace.—Leon Browne, 516 21st St., awarded contract to Dana E. Chase of Houston, Tex., for construction of amusement palace, skating rink, vaudeville theater, etc.; triangular shaped; 25x120x230 feet; will construct 16-foot concrete walk; estimated cost, \$40,000; plans by B. J. Parker of Houston, Tex.

Tex., Galveston.—Clubhouse.—Oleander Country Club, W. A. McVitie, president, awarded contract to Janssen & Zempfer, Galveston, for erection of clubhouse; three stories; stained-wood construction; cost \$20,000; plans by Mauran & Russel of St. Louis, Mo.

RAILWAY STATIONS

Tenn., Morristown.—Southern Railway awarded contract. It is reported, to J. W. McAllister, Gastonia, N. C., for erection of passenger depot; 35x136 feet; brick, stone, etc.; concourse shed, 35x40 feet, will be built on site of present station.

SCHOOLS

Ga., Savannah.—African Mission Society, Rev. Ignatius Lissner, superior, 518 E. Gordon St., awarded contract to I. C. Blackburn & Son (address care of Rev. Lissner) for erection of school; two stories; 74x58 feet; brick; low pressure steam heat; gas and electric lighting; cost \$10,000; plans by Henry Urban, Savannah. (Previously noted.)

Ky., Hopkinsville.—School Board, Barksdale Hamlett, superintendent, awarded contract to Forbes Manufacturing Co., Hopkinsville, Ky., for erection of manual training and high school building; 230x100 feet; two stories and basement; semi-fireproof and mill construction; cost \$100,000; plans by Brinton B. Davis, Louisville, Ky. (Previously noted.)

Okl., Wadita.—City awarded contract at \$12,400 to Eugene Stadelin, Medford, Okla., for erection of school, and at \$1000 to Lenox Heating Co. for installation of heating plant. (Recently noted.)

S. C., St. Matthews.—Elector of school district No. 8 awarded contract to H. L. Ledford, St. Matthews, for erection of school; steam heat; electric lights; cost \$15,000.

STORES

Ark., Blytheville.—Bertig Bros. awarded contract for erection of store to replace structure recently reported burned; 100x100 feet; two stories; brick and concrete.

Ark., Little Rock.—Jos. Lyons and Gabe Bloch awarded contract for erection of store and apartment building. (See "Apartment-Houses.")

D. C., Washington.—M. E. Norment, The Portland, awarded contract to G. W. Acorn, 1424 6th St. N. W., Washington, for repairing buildings at 921-27 7th St. N. E.; cost \$5500; plans by owner.

D. C., Washington.—Mrs. Estella Adams awarded contract to W. H. Turton, 1007 K St. N. W., Washington, for one-story brick store at 824 14th St. N. W.; cost \$8700; plans by owner.

Ga., Columbus.—S. H. Kress Company, 336 Broadway, New York, awarded contract to L. E. Wooton, Columbus, for erection of proposed store building; two stories; steel construction; first floor cement; second floor brick; 53x150 feet; cost about \$55,000.

Ga., Rome.—Mrs. C. R. Porter awarded contract to Flave McCurry, Rome, for erection of business building; two-story front; one-story rear; 65x105 feet; brick; cost \$8000.

La., Grand Cane.—J. L. Leopold awarded contract for erection of two concrete stores; one two stories; the other one story; solid glass fronts.

La., New Orleans.—Julius Koch of New Orleans has contract to erect building to replace burned building occupied by Schwartz-Eustis Company; five stories; brick.

Miss., Itta Bena.—J. W. Bradford has plans by and awarded contract to G. W. Edwards, Itta Bena, for erection of proposed store building; 29x72 feet; ordinary construction; cost \$6000; cost of sidewalk, \$50.

N. C., Greensboro.—R. L. Vernon awarded contract to J. C. Morris, Greensboro, for rebuilding portions of store building recently reported burned; 24x90 feet; ordinary construction; cost \$3000.

N. C., Winston-Salem.—C. W. Barbee awarded contract to A. H. Walls (address care of Mr. Barbee) for erection of proposed store building; two stories; brick; electric lighting; cost \$3300.

Tenn., Chattanooga.—E. R. Betterton & Co. awarded contract to Johnson & Stewart, James Bldg., Chattanooga, for erection of store building; four stories and basement; mill construction; composition roof; electric elevators; plans by J. G. Barnwell & Clarence T. Jones, Chattanooga. (Recently noted.)

Tenn., Crisp.—J. P. Sims has plans by and awarded contract to Hix McCanless, Ennis, Tex., for rebuilding store building recently noted; 30x50 feet; fireproof construction; lighting not decided; cost \$6000.

Tex., Floresville.—Mrs. Mary Butler awarded contract for erection of brick business building.

Tex., Yorktown.—M. Riedel & Sons awarded contract to L. M. Gillet, San Antonio, Tex., for erection of store building; two stories; 52x90 feet; brick; electric lighting; freight elevator; cost \$19,000; plans by H. T. Phelps, San Antonio, Tex. (Recently noted.)

THEATERS

Md., Baltimore.—Royal Amusement Co. awarded contract to Adam Kratz, 343 S.

Smallwood St., Baltimore, to construct building at 1940-1942 W. Pratt St.; one story; brick; 30x50 feet; plans by F. E. Beall, 213 St. Paul St., Baltimore. (Previously mentioned.)

N. C., Winston-Salem.—Robert Hancock, manager, will expend \$18,000 to erect and equip theater; two stories and basement; brick; composition roof, electric lighting; plans by W. C. Northrop, Winston-Salem; contract recently noted awarded to Central Carolina Construction Co., Greensboro, N. C.

WAREHOUSES

D. C., Washington.—Sanders-Standard Material Co. awarded contract to Jo. W. Collins, 1016 T St. N. W., Washington, for masonry on warehouse on Girard St.

Md., Baltimore.—Hub Furniture Co., 701 Pennsylvania Ave., awarded contract to M. C. Davis, 15 E. Fayette St., Baltimore, for construction of warehouse; brick; galvanized-iron cornice; plate-glass front; hot-water heat; gas and electric lights; plumbing; private plans; cost \$6000. (Previously mentioned.)

Md., Baltimore.—Franklin P. Cator will expend \$40,000 to erect warehouse to be occupied by Armstrong, Cator & Co.; 40x90 feet; fireproof construction; steam heat; electric lighting; electric elevator; plans by Wyatt & Nolting, Keyser Bldg., Baltimore; contract previously noted awarded to John Cowan, 196 W. Madison St., Baltimore.

N. C., Salisbury.—Gelser Manufacturing Co., Waynesboro, Pa., awarded contract to A. H. Lazenby, Salisbury, for erection of storage warehouse; 90x100 feet; brick; cost \$600. (Recently noted.)

Tex., Houston.—International & Great Northern Railway awarded contract to C. G. Patton of Houston for construction of warehouse and wharves; estimated cost, \$50,000.

RAILROAD CONSTRUCTION

RAILWAYS

Ala., Birmingham.—The Birmingham, Ensley & Bessemer Railroad Co. has filed incorporation papers to acquire the right of way and franchise of the Tidewater Railway. Headquarters at Birmingham. Paul Mitchell, president; DeWitt B. Lightner, vice-president and treasurer, and A. F. Kummer, secretary. Forney Johnston, attorney for the Tidewater, is quoted as saying that work will begin within two months and that a representative of McArthur Bros., contractors, will draw up plans at Birmingham in a few days. J. M. Dewberry, vice-president of the Tidewater, is quoted as saying that R. L. Totten of Birmingham will prepare maps. At Dauphin Island, 20 miles south of Mobile, construction will also soon begin.

Ala., Cullman.—The Cullman Coke & Coal Co., according to a dispatch, will resume construction of its railroad from Cullman to Juliana, 28 miles, about March 1. A meeting is to be held January 31.

Ala., St. Stephens.—The Portland Cement & Coal Co., Francis L. Robbins, president, is reported building a 10-mile railroad from St. Stephens to connect with the Southern Railway at Prestwick.

Ark., De Queen.—E. H. Cravens, former chief engineer of the Memphis, Paris & Gulf Railway Co., is reported to have addressed a meeting at De Queen on behalf of a railroad plan to connect Little Rock, Hot Springs and De Queen, Ark.; Idabel, Okla., and Dallas, Tex. Capitalists of Cincinnati, O., and Dallas are reported considering the plan. A dispatch from Little Rock says it is proposed to make the De Queen & Eastern Railway and the Niemeyer Lumber Co.'s road part of the route. The Caddo & Choctaw and the Clark Lumber Co.'s road may also be included.

Ark., Horatio.—Reported that Baker & Campbell, contractors, of Kansas City, Mo., have been given a subcontract on the Kansas City Southern Railway at Horatio, the general contractors being Burke & Joseph of Cape Girardeau, Mo.

Ark., Magnolia.—Work is reported being pushed on the Gulf, Magnolia & Northern Railway, of which Henry Nunan is chief engineer.

Fla., Green Cove Springs.—R. L. Dowling, it is reported, will build a railroad to develop timber lands.

Fla., Oviedo.—The Wright & Wadley Company of Macon, Ga., it is reported, have a contract for grading on the Kissimmee Valley Railroad at Oviedo, and will sublet part.

Fla., Pensacola.—The Gulf, Florida & Alabama Railroad Co., which has applied for a franchise in Pensacola, proposes to build from Pensacola to Jasper, Ala., about 250 miles, including the line of the Southern States Lumber Co., on which, it is reported, an option has been obtained. The latter road is about 50 miles long from Museogee, Fla., into Alabama. Megargel & Co., 5 Nassau St., New York; William Fisher of Pensacola and others are interested.

Fla., Sanford.—An officer of the Sanford Traction Co. is reported saying that extension of about 15 miles will be done by the company's forces. S. O. Chase is president and A. P. Connelly is manager at Sanford, Fla.

Fla., Tampa.—R. L. Riley, first vice-president of the Atlantic, Okeechobee & Gulf Railway Co., writes that it will immediately build a main line from Tampa to Miami, Fla., as previously reported. Henry C. Ferriol of New Orleans is president; R. L. Riley of the same city, first vice-president. Present address, 818 Audubon Bldg., New Orleans, La. Bids will be opened, says another letter, on March 15.

Fla., Wauchula.—Swann & Holtsinger of Tampa, Mr. French of the same place and George S. Williams of Wauchula are reported making preparations to start work on the railroad from Wauchula to Ona, connecting there with the Charlotte Harbor & Northern. It is also reported that the line may be extended west to Bradentown and east to Avon Park.

Ga., Adel.—Reported that H. H. Tift contemplates extending his lumber railroad from Berlin to Pavo, six miles, and it may be extended to Thomasville.

Ga., Atlanta.—The Atlanta-Carolina Railway Co., says a report, has elected officers thus: Matthew Mason, president; C. W. McClure, vice-president; J. Frank Beck, treasurer, and M. F. Edmondson, secretary, all of Atlanta. The directors include the officials and E. F. Flake, W. E. Beckham, J. J. Kellar, Dr. Henry L. Wilson and A. L. Calhoun of Atlanta; J. C. Broadnax of Walnut Grove, L. W. Tucker of Conyers, C. E. Irwin of Washington, J. J. Nunnally of Monroe and A. J. Almand of Lithonia, Ga. Survey has been made from Atlanta to Conyers, Ga., and a mile of track is laid from White City along Confederate Ave. in Ormewood. Construction is to be pushed to Conyers, and when that is done the line will be built from White City into Atlanta, terminating at Broad and Forsyth Sts.

Ga., Jackson.—W. F. Smith of Flovilla, Ga., is reported to have begun construction of the Middle Georgia Interurban Railway to con-

nect Jackson, Griffin and Social Circle. The Flovilla & Indian Spring line, 2½ miles long, will be extended to five miles as part of the work.

Ga., Richland.—An official of the Georgia, Florida & Alabama Railway denies the recent press report that it contemplates building an extension from Richland to Columbus, Ga.

Ky., Augusta.—The Rinehart & Dennis Company, Evans Bldg., Washington, D. C., is reported to have contract for 17 miles of steam-shovel work on the Chesapeake & Ohio Railway near Augusta, Ky. H. Pierce is engineer of construction, Richmond, Va.

Ky., Louisville.—The sale of the Louisville & Eastern Railway to the Louisville & Interurban Railroad Co. is reported confirmed by the court and the property transferred. The Louisville Railway Co. controls the Louisville & Interurban and T. J. Minary is president. Improvements are expected.

Ky., Madisonville.—Dock Fowler, residing near Madisonville, is reported promoting plans to build an electric railway about 13 miles long from Madisonville to Ashbyburg, Ky.

Ky., Maysville.—The Chesapeake & Ohio Railway, says a press report, has let contract to James Ireland & Co. of Maysville to grade for second track on 57 miles of the Cincinnati division between Lawrence Creek and Foster. The firm also has a contract between Maysville and Vanceburg.

Ky., Paducah.—The Chicago, Burlington & Quincy Railroad Co., says a report, will not begin work on its contemplated line near Paducah until spring. W. L. Breckenridge is chief engineer at Chicago, Ill.

La., St. Martin.—A letter to the Manufacturers Record confirms report that Morgan's Louisiana & Texas Railroad & Steamship Co. (Southern Pacific) may build a spur from four to six miles long along Bayou Teche to Cypress Island. E. B. Cushing is engineer of construction at Houston, Tex.

La., Vidalia.—The Southern Railway & Navigation Co., according to a press report, contemplates building a railroad from a point in Concordia parish to Alexandria, La., about 60 miles. D. K. and M. J. Jeffers of Chicago, lumbermen, are said to be interested, and J. C. Ulrich is chief engineer at the Pullman Bldg., Chicago, Ill.

Mo., Kansas City.—The Kansas City-St. Louis Electric Railway Co., Commerce Bldg., Kansas City, Mo., it is reported, shortly let contracts to grade 145 miles of its line between Kansas City and Columbia, Mo. Road will be double track. It includes some heavy work.

Mo., New Madrid.—E. S. McCarty, president and general manager of the St. Louis & Southern Missouri Railroad, which is building from New Madrid to Cape Girardeau, 50 miles, is reported as saying that considerable grade has been built and track-laying will begin in a few months. A large force is employed.

Mo., St. Louis.—An officer of the Manufacturers' Railway is quoted as saying that construction has begun on extensions of yard tracks in St. Louis, but no contracts will be let. George F. Moore is president at St. Louis.

N. C., Nevassa.—The Wilmington, Brunswick & Southern Railroad Co. is reported to have resumed construction and will complete its line from Bolivia to Southport, N. C., 13 miles. Z. W. Whitehead of Wilmington, N. C., is president.

N. C., Robbinsville.—February 14 a vote will be taken to issue \$50,000 of Graham county bonds to aid the Graham County Railroad, which proposes to build from Robbinsville to Topton, on the Southern Railway. J. D. Jenkins, chairman, or R. B. Slaughter, clerk of the County Commissioners, may be able to give information. Line will be about 12 miles long. The Whiting Lumber Co., Judson, N. C., is reported interested.

N. C., Rockingham.—Construction is reported being pushed on the Rockingham Railroad, about 45 per cent. of grading on the main line being finished. A spur has also been graded to Midway Mills to Great Falls and to Roberdell No. 2. The road touches five other mills. Tracklaying will begin about February 1 at Gibson.

N. C., Rutherford.—The Isothermal Traction Co., which proposes to build a line from Gastonia via Rutherford to Asheville, 100 miles, has, it is reported, changed its name to the North Carolina Interurban Traction Co. K. S. Finch of Charlotte, N. C., is president. A dispatch from Raleigh says that a bill has been introduced in the Legislature to change the name.

Okl., Beaver City.—J. M. Kerns of Beaver City, general manager of the Beaver Valley

& Northwestern Railroad Co., is reported as saying that a survey has been made between Gage and Hooker, Okla., 104 miles. At one point is a tangent 26 miles long. The plans are to eventually build from Beaver City to La Junta, Col., 150 miles, and in the other direction from Beaver City to Oklahoma City, 250 miles. Right of way has been secured for 104 miles. Joseph A. Tack of Wichita is also reported interested.

Okla., Oklahoma City.—The Kansas, Oklahoma & Panama Railroad Co. has filed an amended charter and will, it is reported, start construction soon; capital \$1,000,000. Two lines are proposed, one north and south through Woodward, Ellis, Roger Mills, Greer, Kiowa, Jackson, Comanche, Stephens, Carter and Tillman counties, and the other from Beckham county east through Oklahoma City. R. W. Ruffin is president and F. A. Mosher secretary-treasurer, the former's address being Hamilton, O., and the latter's Post, Okla. Other incorporators are J. J. Winton, Sentinel, Okla.; A. H. Symcox of Cordell and John Dumas of Oklahoma City.

Okla., Tulsa.—Charles Page of Sand Springs Farm proposes, according to a report, to build the Sand Springs Interurban Railroad from Tulsa to the Springs, following a route near the Arkansas River.

S. C., McBee.—The South Carolina Western Railway, it is reported, will extend its line, recently completed from McBee to Hartsville, to Florence via Darlington, to which latter point grading is done, and also from Florence to a point on the seacoast. W. R. Bonsal and J. E. Hancock of Hamlet, N. C., are interested.

S. C., Orangeburg.—The Orangeburg Railway Co. is reported chartered with \$50,000 capital to build from Orangeburg to Springfield, S. C., 39 miles. Ultimately it is to extend to Columbia, Charleston and Augusta. W. C. Wolfe, the principal stockholder, is president; Joseph A. Berry, secretary, both of Orangeburg, and who, with Lawrence Manning of Sumter, compose the board of directors.

Tenn., Chattanooga.—C. E. James, it is reported, has applied for a franchise for several interurban railways to enter Chattanooga. The lines will reach Dalton, Ga.; Harrison and Cleveland, Tenn.; Sequatchie Valley and other points.

Tenn., Livingston.—The Overton County Railroad, it is reported, will be reorganized as the Cincinnati & Nashville, and contemplates building from Livingston via Byrdston and Monticello to Somerset, Ky., about 75 miles, and contracts will be let in the spring, including a tunnel, two steel bridges and a trestle. George L. Wilkins, 1007 Marquette Bldg., Chicago, Ill., is president; E. C. Knight is secretary, Livingston, Tenn.

Tenn., Nashville.—The South Atlantic Transcontinental Railroad Co. has taken out a charter in Tennessee to build therein about 85 miles of its contemplated line from coal fields northwest of Knoxville to Southport, N. C. S. A. Jones of Waynesville, N. C., is president. The road will be altogether 625 to 650 miles long. McArthur Bros. of Chicago, as previously stated, are reported to have the contract.

Tex., Beeville.—An officer of the Nueces Valley Railroad Co. is reported as saying that contract has been let to Robert A. Lysle & Co., First National Bank Bldg., Chicago, Ill., to build the proposed line from Beeville to Eagle Pass and Aransas Pass, 253 miles. William A. Frisby is president and George A. Hall, chief engineer at Beeville, Tex.

Tex., Brady.—The St. Louis & San Francisco Railroad, says a dispatch, has completed its line from Brady to Menardville, Tex.

Tex., De Leon.—The Texas Central Railway, it is reported, has completed its branch from De Leon to Cross Plains, 41 miles, and has put it in service.

Tex., El Paso.—G. B. Brady is reported to have completed the railroad from a point on the Santa Fe between Cutler and Engle to the site of the Government dam at Elephant Butte, 11 miles.

Tex., Farwell.—A letter says that Carder Bros. have taken a contract for grading on the Rock Island, Texico & Farwell Railway, which is building between Farwell and Knowles, 54 miles. M. J. Healy is president.

Tex., Mexia.—J. Sanford Smith is reported chairman of a local committee for building an electric railway between Mexia and Waco.

Tex., Plainview.—President J. N. Donohoe of the Citizens' National Bank writes that the report that he had received a proposition from responsible railroad promoters for a line from Tucumcari, N. M., to Plainview

and Fort Worth is a little premature. There is nothing to announce at present.

Tex., San Antonio.—Albert Phenix, staff correspondent Manufacturers Record, wires that San Antonio Chamber of Commerce is behind citizens' movement to build railroad from San Antonio to Brownsville or its vicinity. Propose construction company with \$500,000 capital to get right of way, bonuses and locate route. Believed \$2,500,000 in bonuses can be secured. Stock subscriptions to be completed by April 1.

Tex., Sterling City.—The Santa Fe, it is reported, is surveying with a view to building a line from Sterling City toward Pecos, through Glasscock, Regan, Upton, Crane, Ward, Pecos and Reeves counties. F. Merritt is chief engineer at Galveston, Tex.

Tex., West Columbia.—C. S. Edwards of West Columbia is reported interested in the proposed Velasco, Rosenberg & Northern Railway, backed largely by farmers of Brazoria county. Steps are being taken to secure right of way and procure charter.

Tex., West Columbia.—The Gulf, Velasco & Northern Railroad Co., it is reported, has organized to build from Velasco to Sealy, Tex., about 100 miles. No bridges will be required. D. A. Barr, president; C. Davis, first vice-president; A. C. Bates, second vice-president; S. L. Crickard, treasurer; John S. Partlett, secretary.

Va., Wise.—The Virginia-Kentucky Railroad Co., it is reported, will build a line from Norton to Wise, about eight miles, also an extension of 15 miles into Dickinson county, besides a line from Norton along Guest River to mines of the Virginia Coal & Iron Co., 10 miles. F. M. McClure is superintendent at Wise, Va.

W. Va., Clarksburg.—Curtis, Shumway & Dean, 7307 Mt. Vernon St., Pittsburg, Pa., are reported to have secured contract on the Middle Island Railway, to run from Clarksburg via Middlebourne to Sistersville, W. Va., 53 miles. Fourteen miles will be first built to Middlebourne. Horner & Davis of Clarksburg are engineers. T. M. Jackson is president at the same place. There will be 450,000 cubic yards of excavation.

W. Va., Fairmont.—S. D. Brady, chief engineer of the Buckhannon & Northern Railroad Co., is reported to have received 50 bids for construction of the proposed line from a point near Rivesville via Fairmont to the Pennsylvania boundary. Several weeks will elapse, it is said, before contract is let.

W. Va., Martinsburg.—F. S. Felker of Martinsburg, Richard Hammersley of North Mountain, W. Va., and others are reported interested in a plan to build an electric railway from Martinsburg via North Mountain to Glengary.

STREET RAILWAYS

Ark., Fort Smith.—The Fort Smith Light & Traction Co., it is reported, will build a four-mile extension between Van Buren and Fort Smith.

Ky., Somerset.—J. H. Gibson, says a dispatch, who bought the Somerset Water, Light & Traction Co., announces that he will spend \$50,000 for improvements, including an extension.

Tenn., Johnson City.—The Johnson City Traction Co., it is reported, is seeking rights of way to extend to the State Normal School site. S. C. Williams is president.

Tenn., Knoxville.—Franchise is reported granted to J. A. Anderson, G. K. Kesterson and others to build an extension of about a mile on the Fountain City line of the Knoxville Railway & Light Co. to Greenwood.

Tenn., Nashville.—The Nashville Railway & Light Co., it is reported, will build about five miles of new track this year.

Tex., Fort Worth.—The Northern Texas Traction Co., it is reported, will build a loop line extension to the baseball park.

Tex., Greenville.—The Greenville Development Co., it is reported, will build an electric railway from Greenville to Mineral Heights, two miles south.

Tex., Dallas.—George Works is reported as saying it is expected to begin work within two weeks on the street railway for which he recently obtained franchise on Ross Ave. and Henderson St. It will cost about \$25,000.

MACHINERY, PROPOSALS AND SUPPLIES WANTED

Manufacturers and others in need of machinery or supplies of any kind are requested to consult our advertising columns, and if they cannot find just what they wish, if they will send us particulars as to the kind of machinery or supplies needed we will make their wants known free of cost, and in this way secure the attention of manufacturers and dealers throughout the country. The Manufacturers Record has received during the week the following particulars as to machinery and supplies wanted.

Air Compressor.—Albert Garren, 1129 Ferry St., Easton, Pa., wants steam or belted air compressor, 250 to 300 cubic feet.

Amusement Devices.—Chalybeate Springs Co., Box 829, Atlanta, Ga., wants amusement devices for summer resort.

Boller.—Box 351, Newman, Ga., wants prices on 150-horse-power high-pressure boiler.

Bollers.—Gollad Steam Laundry, Gollad, Tex., wants prices on bollers.

Boller.—A. L. Gorley, R. F. D. No. 2, Box 78, Linwood, N. C., wants prices on new or second-hand 40-horse-power return tubular boiler.

Bollers.—W. B. Camp, Jacksonville, Fla., wants prices on two 40-horse-power bollers. (See "Engine.")

Bollers.—Dallas Coffin Co., Dallas, Tex., will purchase bollers.

Bridge Construction.—Building Commission, J. C. Spivey, secretary, Conway, S. C., will receive bids until 3.30 P. M. February 16 for construction of steel bridge across Wacamac River near Conway; certified check for \$500; plans and specifications at office of C. P. Quattlebaum, chairman of commission.

Bridges.—Charles L. Ruffin, Mcaville, N. C., wants two second-hand through steel truss spans suitable for re-erection; must be 30 to 110 feet long, about 50 degrees skew, left ahead; to carry 85-ton engine and 50-ton capacity cars; state weight, price per ton and delivery.

Building Materials.—King Lumber Co., Charlottesville, Va., wants bids on plumbing, heating, roofing, painting, plastering, ornamental and structural iron, marble, stone, fireproofing, etc.; for Cumberland (Md.) city hall.

Building Materials.—Burns & Houle, Sarasota, Fla., want prices, delivered South Florida, on building materials of all kinds.

Clayworking Machinery.—Charles D. Fow-

ler, Washington Loan & Trust Bldg., Washington, D. C., wants information, etc., on machinery for manufacturing porcelain ware from kaolin, clay, etc.

Clock.—B. H. Holzbach, Box 821, Richmond, Va., wants approved watchman's clock for use in furniture factory.

Corn-mill Frame.—John T. Wyatt, R. F. D. No. 3, Box 10, Salisbury, N. C., wants cast-iron corn-mill frame.

Culverts.—See "Paving."

Dam Construction.—A. P. White & Co., Cadiz, Ky., want to contract for reinforced concrete dam. (See "Electrical Machinery.")

Dams.—Sealed proposals will be received at office of General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., until 10.30 A. M. March 30, and then opened, for furnishing and erecting, free of all charges, on foundations furnished by the Commission at different lock sites of the Panama Canal, three pairs of emergency dams at the upper locks of Gatun, Pedro Miguel and Miraflores, and for furnishing and delivering certain tools, equipment, and spare and repair parts; blanks and general information relating to this circular (No. 616) may be obtained at above office or offices of assistant purchasing agents, 24 State St., New York; 55 National Realty Bldg., New Orleans; 1066 North Point St., San Francisco, Cal.; also from U. S. Engineer Office in following cities: Seattle, Wash.; Los Angeles, Cal.; Baltimore, Philadelphia, Pittsburg, Boston, Buffalo, Cleveland, Cincinnati, St. Paul, Detroit, Milwaukee, Chicago, St. Louis, Chattanooga, Louisville, Mobile and Galveston; Commercial Club, Kansas City; Chamber of Commerce, Quincy, Ill., and Chamber of Commerce and Board of Trade, Tacoma, Wash.; E. C. Boggs, Captain, Corps of Engineers, U. S. A., General Purchasing Officer.

Drainage Canals.—Board of Drainage Commissioners of Bolivar county will receive sealed proposals at office of Sillers, Owen &

Sillers, Cleveland, Miss., until 2.30 P. M. February 16 for excavation of following drainage canals: Holmes Lake, 7.2 miles, excavation, 388,000 cubic yards; Snake Creek, clearing 21 miles between Lake Cut-off and Bogue Phalla; Mound Bayou, 8.7 miles, excavation, 329,000 cubic yards; Jones Bayou Cut-off, 6.8 mile, excavation, 24,000 cubic yards; Goose Lake Cut-off, 1.7 miles, excavation, 71,000 cubic yards; probable cost, \$95,000; plans, specifications, profiles and blank forms on which bids must be made are on file at office of W. W. Boone, chief engineer, Cleveland; no bid considered unless accompanied by certified check for sum equal to 10 per cent. of bid; bond required; L. H. Gaines, member of commission.

Digging Tools.—V. S. Hienly, Corpus Christi, Tex., wants names and addresses of manufacturers of or dealers in tools to dig up blutithic and asphalt pavement.

Distilling Equipment.—J. L. Richards, Clarksburg, W. Va., wants data and prices on equipment for distillation of sassafras oil from wood.

Drills.—C. M. Niles, Vonnore, Tenn., wants to correspond with manufacturers of core drills.

Drykiln.—Dallas Coffin Co., Dallas, Tex., will purchase drykiln.

Dump Wagon.—Frank C. Manson, Jonesboro, Ga., wants names and addresses of manufacturers of dump body or dump wagon (Everett preferred).

Electrical Equipment.—Proposals will be received at Bureau of Supplies and Accounts, Navy Department, Washington, D. C., until 10 A. M. January 31 to furnish at Naval Academy, Annapolis, Md., three motors and a speed-indicator engine-shaft system. Application for proposals should refer to Schedule 2559. Blank proposals will be furnished upon application to Navy Pay Office, Baltimore, Md., or to bureau; T. J. Cowie, Paymaster-General, U. S. N.

Electric-Light Plant.—Chalybeate Springs Co., Box 829, Atlanta, Ga., wants electric plant to supply light for 75-room hotel, summer resort, small town and park.

Electrical Machinery.—Department of Justice, Office of Superintendent of Prisons, Washington, D. C., Proposals will be received until 10 A. M. February 14 for furnishing and delivering at United States penitentiary, Atlanta, Ga., electric-light and power installation in hospital building in accordance with specifications. Copies of specifications, together with further information, may be had upon application at above office. E. V. Ladow, Superintendent of Prisons, Washington, D. C.

Electrical Machinery.—A. P. White & Co., Cadiz, Ky., wants prices on electric motor to operate grain elevator; capacity of elevator, 50,000 bushels.

Elevator Machinery.—See "Grain Elevator."

Elevator.—People's New Furniture Co., Anderson, S. C., in market for freight elevator.

Excavating Canal.—See "Masonry Culvert."

Engine.—W. M. Duke, Petersburg, Ky., wants second-hand 15 to 50-horse-power gas or gasoline engine; send description and name best price.

Engine.—W. B. Camp, Jacksonville, Fla., wants prices on engine and two 40-horse-power bollers to operate ice machinery and dynamo for 80 lights.

Engine.—J. D. Strickland, Stillson, Ga., wants second-hand 40 to 60-horse-power Corliss engine.

Engine.—Box 351, Newman, Ga., wants prices on 16x42 Corliss engine.

Engines.—Gollad Steam Laundry, Gollad, Tex., wants prices on engines.

Engine.—H. B. Phillips, Fairmont, N. C., wants prices on 5x6-inch rotary engine.

Engine.—Builders' Supply Co., Dallas, Tex., wants second-hand Lidgerwood engine and excavating scraper bucket; must be in good condition, subject to inspection before purchased. (See "Excavating Scraper Bucket.")

Engine.—A. L. Gorley, R. F. D. No. 2, Box 78, Linwood, N. C., wants prices on new or second-hand 25-horse-power engine.

Excavating Scraper Bucket.—Builders' Supply Co., Dallas, Tex., wants second-hand Lidgerwood engine and excavating scraper bucket; must be in good condition, subject to inspection before purchased. (See "Engine.")

Extracting Machinery.—J. F. Singer, Adams, Tenn., wants names and addresses of manufacturers of machinery for extracting tobacco juice from stalks and stems.

Flooring, etc.—W. R. Bishop, Box 275, and H. J. Solesbee, both of Spartanburg, S. C., want hardwood flooring and hardwood lumber.

Fiber Machinery.—See "Wire-Spinning Machinery."

Flour Machinery.—A. P. White & Co., Cadiz, Ky., want machinery for flour mill of 150 barrels daily capacity.

Gasoline Engine.—See "Engine."

Gasoline Engine and Pump.—A. L. Gorley, R. F. D. No. 2, Box 78, Linwood, N. C., wants prices on gasoline engine and pump; capacity, 20 gallons per minute; depth of well, 60 feet; tank 25 feet high.

Gas Plant.—Tender will be received by undersigned up to March 1 for erection of gas plant to serve requirements of Monterey; 85,000 inhabitants; plans and specifications may be seen at offices; copies of plans and specifications, form of tender and other necessary information furnished to responsible bidders on request; separate or supplemental tenders also received at same time for laying gas mains and curb connections; communicate with Lewis Lukes, general manager Monterey Railway, Light & Power Co., Ltd., Apartado (P. O. Box) 58, Monterey, N. L., Mexico.

Ginning Machinery.—George F. McCulloch, Lovelady, Tex., will open bids May 30 for ginning machinery.

Grain Elevator.—A. P. White & Co., Cadiz, Ky., want grain-elevator machinery for 50,000 bushels capacity.

Hardware.—David J. Craig, Statesville, N. C., wants prices on hardware.

Heating Plant.—David J. Craig, Statesville, N. C., wants prices on steam or hot-water heating plant.

Heating Plant.—See "Building Materials."

Hotel Equipment.—Chalybeate Springs Co., Box 829, Atlanta, Ga., wants necessary equipment for 75-room hotel, including water system, electric-light plant, etc.

Ice Machinery.—W. M. Duke, Petersburg, Ky., wants 2 to 12-ton second-hand ice plant; send description and price.

Ice Plant.—C. E. Newton & Bro., Macon, Ga., will consider data and prices on ice and cold-storage machinery.

Laundry Machinery.—Gollad Steam Laundry, Gollad, Tex., wants prices on laundry machinery.

Lock and Dam.—U. S. Engineer Office, Cincinnati, O. Proposals for constructing lock and dam No. 29, Ohio River, near Ashland, Ky., will be received until 2 P. M. February 20; information on application; H. Jervey, Major, Engineers.

Locomotive.—D. F. Hill, 451 Equitable Bldg., Baltimore, Md., wants prices on 5x10 or 6x10 saddle-tank 36-inch-gauge locomotive.

Locomotive.—Chicago House Wrecking Co., 35th and Iron Sts., Chicago, Ill., will purchase 24-inch-gauge locomotive; send lowest price and specifications in first letter.

Lumber.—See "Flooring."

Machine Tools.—R. E. Harryman Machine Co., R. E. Harryman, Clay and Ormsby Aves., Louisville, Ky., will need milling machine and punch press.

Masonry Culvert.—Sealed proposals addressed to City Council of Augusta, Ga., will be received by Canal and River Commission until 4 P. M. February 7 for furnishing all material and labor and constructing masonry culvert over Beaver Dam Ditch crossing Gwinnett St., and excavating third level of canal from Gwinnett St. to Twigg St.; two contracts; one contractor may bid on both; bond of \$1000 required for each contract, and cash or certified check for \$100 must accompany each bid; city reserves usual rights; specifications and plan may be had by applying at the office of Nisbet Wingfield, City Engineer and Commissioner Public Works.

Molding Plant.—American Cattle Guard Co., 712 Whitney-Central Bldg., New Orleans, La., wants to correspond with manufacturers of molding plants for manufacturing cattle guards.

Oil Machinery.—See "Distilling Equipment."

Paving.—J. D. Trammell, City Engineer, Fort Worth, Tex., will receive bids until 9 A. M. January 31 for improvements on North St. from intersection of Penn St. to Summit Ave., and of 16th St., or alley, from Main St. to east property line of Houston St., with either bitulithic pavement, vitrified-brick pavement or rock-asphalt pavement; certified check for \$1000; form of proposals and specifications at office of City Engineer; may accept different bids for different parts of improvements, bids on different plans or for different materials specified; J. H. Maddox, Commissioner Street and Public Property; W. J. Estes, City Secretary.

Paving.—Board of Public Works, Mobile, Ala., will receive bids until February 16 for wood paving and storm sewers as follows: 33,000 square yards of wood-block paving, including grading and concrete foundation;

13,426 linear feet of cement curbing, including grading; 10,350 linear feet of storm sewers, ranging in size from 5x11 feet canal to 10-inch vitrified pipe, including manholes, inlets and catch-basins; also 6000 feet of six-inch vitrified pipe house connections; profiles, plans and other data on file in office of chief engineer, and can be seen on application; specifications, proposals and other blanks furnished by chief engineer; bids also received at same time and under same conditions for 11,400 square yards cement pavement, 3400 feet granite curbing, 300 feet 3x5 feet concrete culverts and 1000 feet 10-inch vitrified pipe storm sewers; Wright Smith, chief engineer.

Paving, etc.—Board of Commissioners, Huntington, W. Va., will receive bids until 1 P. M. February 20 for following paving and sewer work, for which plans and profiles are on file in City Engineer's office: Alley between Third and Fourth Aves. from 20th to 21st St.; alley between Third and Fourth Aves. from 6th to 8th St.; sewer in Adams Ave. from 13th to 15th St. and from Adams Ave. in 15th St. to alley between Washington and Virginia Aves.; also in alley between Washington and Virginia Aves. from 15th to 18th St. and in alley between Washington and Adams Aves. from 15th to 18th St.; certified check \$500; A. B. Maupin, City Engineer; John Coon, Commissioner of Streets.

Paving.—Fort Scott Industrial Association, J. C. Forester, secretary, Fort Scott, Kans., will furnish information regarding construction of 19 blocks of brick and 32 blocks of macadam paving; Fort Scott Council has authorized this work.

Paving Materials.—Office of Commissioners of Chatham County and Ex-officio Judges, Savannah, Ga. Sealed proposals will be received not later than 12 noon on March 9, 1911, for furnishing 5000 cubic yards cement gravel or other like material for improving and repairing public roads; specifications furnished upon request by prospective bidders; proposals must be sealed and marked "Bids for Gravel"; certified check payable to order of Chatham County in sum equal to 5 per cent. of amount of the bid must accompany each proposal.

Peanut-butter Machinery.—H. N. Fitzgerald, secretary Board of Trade, Suffolk, Va., wants catalogues and prices on machinery for manufacturing peanut butter and other peanut products.

Piping.—Burns & Houle, Sarasota, Fla., want prices, delivered South Florida, on terra-cotta drain and sewer pipe.

Piping.—See "Paving."

Plumbing, etc.—David J. Craig, Statesville, N. C., wants prices on plumbing, bathroom equipment, etc.

Pumps.—E. M. Hodges, Kinston, N. C., wants prices on steam pumps.

Pump.—See "Gasoline Engine and Pump."

Rack Railway Material.—Sealed proposals will be received at office of General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., until 10.30 A. M. March 24, and then opened, for furnishing rack railway material for Panama Canal locks, including rack, steel channels, rail bonds, bolts and nuts, tie clips, washers, steel cross-ties, copper and steel conductor rails, insulators, bumpers, frogs, switches, etc.; blanks and general information relating to this circular (619) may be obtained at above office or offices of assistant purchasing agents, 24 State St., New York; 55 National Realty Bldg., New Orleans; 1086 North Point St., San Francisco; also from U. S. Engineer Office in following cities: Seattle, Los Angeles, Baltimore, Philadelphia, Pittsburg, Boston, Buffalo, Cleveland, Cincinnati, St. Paul, Detroit, Milwaukee, Chicago, St. Louis, Chattanooga, Louisville, Mobile and Galveston; Commercial Club, Kansas City; Chamber of Commerce, Quincy, Ill., and Chamber of Commerce and Board of Trade, Tacoma; F. C. Boggs, Captain, Corps of Engineers, U. S. A., General Purchasing Officer.

Rails.—Philadelphia Veneer & Lumber Co., Knoxville, Tenn., wants prices (f. o. b. Caryville, Tenn.) on one to two miles of 20-pound relaying rails.

Railway Supplies, etc.—Atlantic Okeechobee & Gulf Railway Co., R. L. Riley, first vice-president, 518 Audubon Bldg., New Orleans, La., wants supplies and all classes of machinery for 500 to 600 miles of railroad from Tampa to Miami, Fla.

Railway Specialties.—N. S. Haim, 69 Mark Lane, London, England, is prepared to consider representing manufacturers of machinery and new inventions of interest to railways.

Railroad Supplies.—Southern Building Material Co., Arcade Bldg., Norfolk, Va., wants to correspond with manufacturers or dealers in railroad supplies with a view to representation.

Rolling-mill Products.—Hobbs-Newby Equipment Co., Seaboard Bank Bldg., Norfolk, Va., wants to represent manufacturers of rolling mills on steel bars for concrete reinforcement; strictly commission basis.

Safe, Vault, etc.—Stewart State Bank, Stewart, Miss., wants prices on safe, vault and other bank fixtures.

Saws.—H. C. C., Manufacturers Record, Baltimore, Md., wants lathe-saw equipment; also swing saw and cut-off saw; name make, price, etc.

Sawmill.—J. H. McClellan, Jr., 2316 Twelfth Ave., Columbus, Ga., wants price (delivered f. o. b. Blountstown, Fla.) from manufacturers of portable sawmills; want to attach cane mill, also cocks for grinding cane.

Seat Covers.—Becker-Furlow Motor Co., Spartanburg, S. C., wants to correspond with manufacturers of seat covers for motor cars.

Seating.—Thomas McAdoo, Soles, Va., wants to correspond with manufacturers of seats for churches and schools.

Sewer Construction.—See "Paving, etc."

Sewer Construction.—See "Water-Works and Sewer Construction."

Sewer Construction.—See "Paving."

Sewer Construction.—Charles Wheeler, Jr., City Clerk, Muskogee, Okla., will receive bids until 5 o'clock P. M. February 6 for construction of and material for sanitary sewers in various districts; certified check for \$50 with bid for each district; will use eight-inch vitrified sewer pipe; plans and specifications at office of City Engineer.

Sewer Construction.—Sealed proposals will be received by Mayor and Councilmen, Uniontown, Ala., until 8.15 P. M. February 13 for furnishing materials and constructing sewer system and sewage-disposal plant according to plans and specifications on file in office of Mayor; work includes construction of disposal plant and 1840 linear feet of 15-inch, 3000 linear feet of 12-inch, 7500 linear feet of 10-inch, 15,200 linear feet of 8-inch pipe sewers, lamp holes and manholes; each proposal must be accompanied by certified check for \$200, payable to Town of Uniontown, Ala.; plans and specifications may be seen at office of Mayor, D. P. Coleman, or at office of Edgar B. Kay, engineer, Tuscaloosa, Ala.; copy of bidding sheets can be secured upon application; usual rights reserved.

Sewer Construction.—Board of Commissioners, Wilson, N. C., will receive sealed proposals until 12 noon February 15 for construction of brick storm sewer from 1000 feet to 2000 feet long, 30 inches to 49 inches in size, according to plans and specifications in office of Town Clerk; T. A. Hinnant, clerk of Board.

Sewers.—T. C. Hughes, City Engineer, Tulsa, Okla., will receive bids until January 31 for construction of storm sewer across 4th St., near Owasso Ave.; concrete pipe 48 inches inside diameter, 60 feet in length; plans, etc., on file at office of City Engineer; bids must be on official proposal sheets; certified check 5 per cent. of bid.

Sewers.—A. W. Farris, City Clerk, Ponca City, Okla., will receive bids until January 31 for construction of lateral sewers in District No. 1 and No. 7; plan and specifications on file at office of City Clerk; certified check for \$1000 must accompany each bid.

Shredding Machine.—Noble Machine Co., Fort Wayne, Ind., wants information, etc., on machine for reducing planing mill shavings to a fine, light, shredded product.

INDUSTRIAL NEWS OF INTEREST

Secures Electrical Contract.

The Carolina Electrical Co., 110 Fayetteville St., Raleigh, N. C., has secured a contract to furnish electrical equipment for the postoffice at Aiken, S. C.

Dissolves Partnership.

The copartnership of McLaughlin, Pettit & Johnson, with offices at Lynchburg and Danville, Va., has been dissolved by mutual consent. Charles Godfrey Pettit, Jr., will retain the Danville office, and McLaughlin & Johnson the Lynchburg office.

Associates With James Nisbet Hazlehurst.

Wilburn Hill, formerly City Engineer of Gadsden, Ala., recently resigned that office to accept a position with James Nisbet Hazlehurst, Atlanta, Ga. Mr. Hazlehurst is a member of the Am. Soc. C. E., and is prominent in his profession.

California Lands for Sale.

Clark D. Hall, Long Beach, Cal., offers for sale 275,000 acres of California lands about 63 miles from Los Angeles. These lands con-

tain a good supply of water and are adapted to deciduous and citrus fruits, as well as for agricultural purposes. Address Mr. Hall for particulars.

Steel Building.—L. A. Green Company, 419 Park Bldg., Pittsburg, Pa., wants prices on 50x150-foot steel building; give description, etc.

Steel Shed.—Port Commissioners, Hugh McCloskey, president, New Orleans, La., will receive bids until February 21 for erection of structural steel and cast-iron for William A. Kernaghan shed; plans and specifications, etc., on file at office of engineer, A. C. Bell, Suite 200 New Court Bldg.

Steel Towers and Tanks.—J. E. Thompson, 241 N. 4th St., Nashville, Tenn., will receive bids on erection of two steel towers 125 feet high, with 75,000-gallon tank, and one 40 feet, with 40,000-gallon tank.

Steel Tubing.—Waynesville Supply Co., Waynesville, N. C., wants prices on 48-inch and 60-inch steel tubing for hydro-electric plant.

Structural Iron, etc.—See "Building Materials."

Telephone Equipment.—Sidney E. Dyer, Alden, Okla., wants prices on telephones, telephone wire, brackets, insulators, switchboards and poles.

Terra-cotta.—Richard W. Massey, Birmingham, Ala., wants to correspond with manufacturers of terra-cotta for wall fountain work. (See "Wall Fountain.")

Tile Drainage.—Gulf States Development Co., 1602 Carter Bldg., Houston, Tex., will want bids on tile drainage for orchard.

Traction Engine.—Carter Mercantile Co., Plainview, Tex., wants traction engine using fuel oil as explosive agent, similarly as gasoline is used in gasoline engine.

Water-power Machinery.—See "Electrical Machinery."

Water System.—Chalybeate Springs Co., Box 829, Atlanta, Ga., wants water system for summer resort, hotel and small town. (See "Hotel Equipment.")

Water-works and Sewer Construction.—Sealed proposals will be received by Hazelhurst & Anderson, consulting engineers, 532 Candler Bldg., Atlanta, Ga., until 12 o'clock noon February 6 for materials and machinery required in construction of water-works and sewer system at Kirkwood, P. O. Atlanta, Ga.; in asking for specifications, prospective bidders will state materials or machinery upon which they desire to submit proposals; all proposals must be made upon blank forms, provided for that purpose, and must be accompanied by certified check in the sum of 5 per cent. amount of bid, made payable to Town of Kirkwood; usual rights reserved. M. D. Thompson, chairman of water committee.

Well-drilling.—J. E. Thompson, 241 N. 4th St., Nashville, Tenn., will receive bids on artesian well, 1500 to 1700 feet deep.

Wall Fountain.—Richard W. Massey, Birmingham, Ala., wants to purchase wall fountain; also wants to correspond with manufacturers of terra cotta who undertake such work.

Wire-spinning Machinery.—N. S. Haim, 69 Mark Lane, London, England, is prepared to consider representing manufacturers of fiber or wire-spinning machinery.

Wire Rope.—Albert Garren, 1139 Ferry St., Easton, Pa., wants lot of $\frac{3}{4}$, $\frac{1}{2}$ and $\frac{3}{8}$ steel wire rope.

Wagon Factory for Sale.

The Keller Wagon Factory at Joplin, Mo., will be sold at trustee's sale to the highest bidder for cash on February 14, 1911. This plant is a large one and will be sold to satisfy the bondholders, the trustee being authorized to sell as a whole or in parts. For particulars address the Conqueror Trust Co., trustee, William Houk, president, Joplin, Mo.

Sale of Water-works Plant.

By virtue of a decree of the Circuit Court of the United States for the Northern District of Georgia, W. S. Greene, master commissioner, will sell at public auction at the courthouse at Columbus, Ga., on March 7, 1911, the property, assets, franchises, etc., of the Columbus Water-works Co. These properties consist of real estate and buildings, water-works, reservoirs, machinery, pump-houses, standpipes, mains and other equipment, besides charter rights, privileges, fran-

chises, etc. For particulars reference is directed to the decree of the Court of October 4, 1910, in the cause of the Mercantile Trust & Deposit Co. of Baltimore, plaintiff, vs. the Columbus Water-works Co., defendant.

Awarded Contract for Road Roller.

The Ingoles Iron Works, Buffalo, N. Y., Philadelphia office, Land Title Bldg., has been awarded a contract to supply a 10-ton (gross) macadam steam road roller to the United States Soldiers' Home at Washington, D. C. This company manufactures steam road rollers, tandem asphalt rollers, portable concrete mixers, asphalt machinery, pavers' tools, etc., and its products are being extensively used.

Establishes New Orleans Office.

The Triumph Electric Co., Cincinnati, O., has recently established a sales office at 723 Poydras St., New Orleans. This is the sixteenth sales office now being maintained by this company, and is the third to be established during the past year. The Triumph company in its new factory is handling an extensive trade and anticipates even greater trade during the coming year. A large stock of machines will be carried at the New Orleans office for immediate shipment.

Establishes Washington Office.

The Detroit Graphite Co. of Detroit, Mich., has recently established an office at 405 Colorado Bldg., Washington, D. C., with W. B. Kilpatrick, formerly with the National Paint Works, in charge. The Detroit Graphite Co. manufactures paints of various kinds, and its products have been widely and favorably introduced. Inquiries regarding its Superior graphite paint and other paint specialties will be given prompt attention by Mr. Kilpatrick at all times.

Establish Agency Connections.

Edgar Allen & Co., Ltd., Imperial Steel Works, Sheffield, England, whose principal American office and warehouse is at 43 W. Randolph St., Chicago, announce that agency arrangements have been completed with the following companies, at whose warehouses large and comprehensive stocks of Allen's high-speed and carbon tool steels will be carried: Roehm & Davison, Detroit, Mich.; J. L. Osgood, Erie County Bank Bldg., Buffalo, N. Y., and John J. Greer & Co., Inc., 26 West Pratt St., Baltimore, Md.

Sale of Cotton Yarn Mill.

By order of court the receiver of the Buffalo Manufacturing Co. of Shelby, N. C., will sell at public sale at Shelby, N. C., at three o'clock P. M. on March 14, 1911, all the property of the Buffalo Manufacturing Co., consisting of about 400 acres of good farming land, small water-power and cotton mill. This mill is equipped with 3584 producing spindles, 1776 twisting spindles and necessary machinery for manufacturing single and ply yarn from No. 2s to 30s. It is located on the Seaboard Air Line Railway, about five miles from Shelby. For particulars address J. C. Smith, receiver, Shelby, N. C.

Oklahoma Farms for Sale.

One of the United States senators from Oklahoma recently gave an Oklahoma boy a free trip to Washington for growing the best acre of corn in Oklahoma. This corn was grown on Alfalfa Vale farm, near Ardmore, which contains 235 acres, 89 acres of which is planted to alfalfa, and 129 acres will be planted to pedigreed corn during the coming season. The farm is now offered for sale. The land is black creek bottom, and the boy referred to grew 95½ bushels on one acre. Improvements include five miles of hogproof fencing, dwelling-house, tenant-house, windmill, orchard, outbuildings, etc. Stock and farming implements will also be sold with the place. For particulars address W. P. Poland, Ardmore, Okla., who offers other properties at attractive prices.

General Contractors' Equipment.

Wm. Van R. Whitall has severed his connection with the Ransome Concrete Machinery Co. of Dunellen, N. J., and has incorporated to conduct a general contractors' equipment business. He will handle the Lakewood line of concrete mixers, buckets, cars, etc., manufactured by the Ohio Ceramic Engineering Co. of Cleveland, O. Mr. Whitall joined the Ransome company over two years ago, and during that time designed and developed the steel centering for forms, leased by them for concrete work upon the Catskill aqueduct and other places. Associated with Mr. Whitall is Blamey Stevens, formerly chief engineer of the Alaskan Home Railroad and the Reynolds Alaskan Exploration & Development Co., and E. Gwynn Robinson of St. Louis, Mo. Mr. Robinson was an employee of the Ransome company, and

left it to associate himself with Mr. Whitall. He has had much experience in the use of concrete as a building material, and for some time was employed upon large and important work in the sewer department of St. Louis, and later by contractors engaged in the construction of the Harlem Creek sewer. The new company is known as W. Van R. Whitall, Inc., and its offices are at 39 Church St., New York.

TRADE LITERATURE.

Cotton Chats for December.

The December edition of Cotton Chats has been issued by the Draper Company, Hopedale, Mass. This publication is illustrated and presents interesting information for cotton-mill men and others.

Wagner Electric Company Calendar.

The Wagner Electric Manufacturing Co.'s calendar for 1911 is a fine example of the artistic product of Ray D. Lillibridge, technical advertising, 192 Broadway, New York. The art feature represents an open door with strong light and shadow effects showing a youthful worker holding the open door to allow a view of one of the "Wagner Quality" electrical machines at work. The calendar is copyrighted by the Wagner company and is issued in its advertising interests.

"Ironclad Exide" Storage Battery.

In continuation of the policy of the Electric Storage Battery Co., Allegheny Ave. and 19th St., Philadelphia, to keep the public informed of the important advances being made in electric storage batteries, this company is distributing a paper on the subject, which has been published in pamphlet form. The paper was prepared by Bruce Ford and presented at the meeting of the Electric Vehicle Association of America at New York January 17. It describes the "Ironclad Exide" battery recently placed on the market and contains other interesting data.

Berger's New Catalogue.

A new, thoroughly up-to-date catalogue has been issued by the Berger Manufacturing Co. of Canton, O. It deals with the products of that company's steel office furniture department. Besides being a typical example of high-class typographical art, it is clear, concise and succinct. It supersedes all previous editions of catalogues of this company's steel filing devices and office equipment. This new catalogue illustrates new and especially useful combinations, gives dimensions etc. It also illustrates the progressive steps taken by the Berger company in the steel office furniture department.

Color-Matching Electric Light.

The Moore light for matching colors is stated by the Western Electric Co. to be an artificial luminant which gives exact daylight color values, and is being introduced into shops, mills and other establishments where color values are of great importance. The white Moore light is a radical new form of electric light, and is illustrated and described in Bulletin No. 945 of the Western Electric Co. It is a vacuum-tube electric light produced by the passing of alternating currents through highly rarified carbon dioxide gas confined within a continuous clear glass tube. The bulletin describes its uses and operation, and a page is devoted to the list of firms now using it. Any information regarding it will be furnished by corresponding with the Western Electric Co. of Hawthorne, near Chicago, and 463 West St., New York.

"De La Vergne" Oil Engine.

Bulletin No. 101 of the Le La Vergne Machine Co., foot of E. 138th St., New York, invites attention to the latest type of that company's crude oil or fuel oil engine, which is claimed to produce power at a minimum cost, or about one-half cent per kilowatt hour. This oil engine is designated the "De La Vergne" oil engine, type "FII." The publication presents a full description of the engine in all its parts, with illustrations, and explains its advantages as compared with other high-compression types. In the case of the type "FII" engine the compression is comparatively moderate, and a special device is provided whereby the air pressure required for starting is reduced to less than 15 pounds. This engine is manufactured in six sizes—85, 125 and 175 horse-power single cylinder; 170, 250 and 350 horse-power twin cylinder.

Voltage Regulator, etc.

A bulletin describing and illustrating the Fucker voltage regulator and regulator transformers has been issued as an introduction to the electric trade of a new

type voltage regulating transformer that is already well and favorably known in the Piedmont section of the Carolinas. The bulletin notes that these regulators and transformers have been designed to fill the demand for simple, rugged and reliable devices for maintaining a constant potential on alternating-current circuits, and that they have been giving excellent service on feeder circuits of large hydro-electric-power companies in regulating the voltage supplied to towns, cotton mills, etc., with practically no attention. The bulletin with full description and price-list enclosed will be furnished by addressing the manufacturer, B. Parks Kucker, Charlotte, N. C.

The Franklin Staff Caliper.

A folder has been issued by the Franklin Caliper Co. of Franklin, N. C., illustrating and describing the Franklin staff caliper for use by timber cruisers or others interested in measuring the diameter of standing timber. This instrument is a tree caliper, log rule and walking staff combined, and is said to be as accurate as the more cumbersome old-style wooden caliper. It consists of two pieces of ash, which, when separated and parallel to each other, are set to the tree in such a way that the diameter is easily read on a spring tape, which is attached to one of the pieces and unrolls from its case attached to the other leg of the caliper. At the same time the parallelism is maintained by similar tape, secured several inches distant from the first tape, the legs of the caliper being parallel when the two tapes read exactly the same. By reason of its compactness the Franklin staff caliper is easily carried in wood-d country, and is now used by fine State forestry schools and a number of lumber companies.

Hayward Counterweight Hoisting Drum.

The Hayward Company, manufacturer of buckets, digging machinery and hoisting drums, 50 Church St., New York, in pamphlet No. 367, gives special attention to the counterweight drum, which is an auxiliary drum to be used with any ordinary hoisting engine, and claimed to increase the economy of plant as well as operation. Any engine runner, it is said, can place the counterweight drum in a convenient position, run his lines out in the proper manner and be ready quickly for work. There are no gears nor sprocket chains to get out of order, and the counterweight drum does not need a special mechanic to attach it. The ordinary hoisting engine is easily adapted by means of this drum for operating the Hayward orange-peel and clamshell buckets, and with a double-drum hoisting engine will also raise and lower the derrick boom. The counterweight consists of three pieces, one weighing 100 pounds and two weighing 50 pounds each. Additional 50-pound pieces can be obtained if necessary.

Dawn of the Dodge Idea.

As every year passes into history it is marked by improvements in mechanics, labor-saving devices and the solution of problems in which the principle of economy is the chief factor. It was in 1882 that the Dodge idea of standardization and interchangeability assumed shape in the wood split pulley with interchangeable bushings. Patents were granted on July 5, 1882, to Dodge and Phippen, patentees, who appropriately called their pulley the "Independence." In the construction of this pulley the arms are dovetailed and fitted into rim mortises, the intervening space being filled with molten brimstone, which, when set, is claimed to make a joint that withstands all shocks and strains to which a pulley may be subjected. Independence pulleys are manufactured by the Dodge Manufacturing Co., Mishawaka, Ind., and are illustrated in a pamphlet entitled "Dawn of the Dodge Idea," which the company is distributing. The pamphlet also presents detailed information regarding the construction of Independence pulleys, together with specifications, price-list, etc.

Necessity for Ventilation.

A pamphlet has been issued by Warren Webster & Co. of Camden, N. J., embodying a lecture recently delivered at Cornell University on the subject of ventilation. This lecture was prepared and read by William G. Snow, chief engineer of the firm. It deals fully with the causes of vitiation of the air in living-rooms, crowded halls and auditoriums, school-rooms and factories, giving the effects of presence of carbonic-acid gas, dust and other impurities to be found in the air of poorly-ventilated rooms, also comparative humidity of outdoor air and impure air of

the room. The point is made that the extra cost of warming the fresh air admitted to living quarters in winter time acts strongly against the application of effective ventilating means, but points out that in view of the greatly beneficial results of proper ventilation this cost should not stand in the way, and that in public buildings adequate ventilation should be regulated by law. The lecture concludes with the statement that "adequate ventilation is the ounce of prevention that will often turn the balance in favor of health and keep us fit for the battle of life. Its importance cannot be overestimated." As a result of this necessity for proper ventilation sanitary engineers, such as the lecturer, and the firm for which he is the engineer, have devised such ventilating systems. The only reference made to the engineering side of the question in this paper is the following: "Some dependable means must in most cases be provided to furnish a minimum volume of fresh air per minute for each occupant and each gas jet, the volume to be based on the air quality which it may be desirable and practicable to maintain in the room."

Turbine Water-wheels.

Descriptive catalogues with appropriate tables and illustrations of the various products of the Poole Engineering and Machine Co. of Baltimore have been issued under separate heading. A catalogue designated "Turbine Water-wheels" presents complete descriptions of the various styles, sizes and applications of the Poole-Lefell turbine water-wheel, with views of the machinery in actual use. Tables showing the data required and results obtainable in any particular installation of this water-wheel are very complete, and a complete set of directions for erecting the machinery and connections with the wheel is included. A catalogue on gearing presents complete tables, descriptions and illustrations of all forms of gears and pinions, wire-rope transmission wheels; balance, fly and band wheels; thrust bearings and patent friction clutches. Another catalogue refers particularly to prices, with dimensions of such articles of standard sizes and makes as can be listed. In this catalogue the company calls attention to its extensive foundry and machine plant in the suburbs of Baltimore and its advantageous location as regards facilities for prompt shipments. The company is extensive manufacturers of machinery for the transmission and distribution of power, cable railways, flour and grist mills, cotton and woolen mills, paper mills, fertilizer and other factories, shafting, pulleys, hangers, turbine water-wheels, stationary steam engines and boilers, etc.

Water Filtration for Industries.

At the last regular meeting of the Franklin Institute of Philadelphia a paper on water filtration for industrial purposes was read by Mr. Churchill Hungerford of Philadelphia. His paper dealt with some of the extraordinary forms of pollution which cause trouble in certain special manufacturing processes, but in the main it discussed problems of purification of such waters as the average textile manufacturer is compelled to use. Various degrees and forms of contamination of streams were described, and a number of interesting instances were cited showing the manner in which the impurities are so completely taken out of the water that it is made even more satisfactory than the municipal supplies of the towns in which the factories are located. Some interesting data relating to the relative amounts of water required by the different industries was given. "A pound of muslin or similar cotton fabric requires in the bleaching process about 27 gallons of water. A pound of paper requires about 50 gallons of water and a pound of silk not less than one thousand gallons of water." The matter of the use of chemicals, such as alum, lime, sulphate of iron, calcium hypochlorite, sulphate of copper, etc., as an aid to purification process was discussed, and a detailed account given of the manner in which these chemicals are completely removed from the water after they have done their duty. His article closed with a description of a filter plant capable of handling highly-polluted waters.

BIG CHATTANOOGA INVESTMENTS.

Nearly \$2,000,000 for Bridge, Road, Courthouse and School Construction.

[Special Dispatch to Manufacturers Record.] Chattanooga, Tenn., January 20.

Under an enabling act passed two years ago, the County Court has ordered the issuance of \$250,000 of bonds to construct a bridge across Tennessee River above the present Walnut-street bridge, and in a separate resolution authorized \$300,000 to build a bridge west of the Walnut-street bridge across the Tennessee River, between Henry and 6th streets. C. E. James, representing New York capital, has agreed to add \$150,000 to be divided equally on both bridges. In addition the county, under an enabling act passed two years ago, has authorized the issuance of \$65,000 to construct a road across Lookout Mountain. The court requested its members in the Legislature, now in session, to pass enabling acts so the county can hereafter issue \$500,000 of bonds for 'improving public roads; \$125,000 school bonds to be used in paying off indebtedness already incurred, and \$100,000 to finish Rossville boulevard, upon which the county has already expended more than \$50,000; this boulevard connects Chattanooga on the south with Rossville, Ga.; also \$400,000 bonds to build a criminal court building at a cost not to exceed \$50,000, and \$350,000 to cover the cost of building a courthouse for Hamilton county.

To the foregoing authoritative statement by Judge Joe V. Williams of Hamilton County Court it may be added that reports state Mr. James and associates agree to construct iron furnace, by-product coke ovens and plant to furnish gas for domestic and manufacturing purposes, and to develop lands for industrial sites on the north side of the river. The plants are understood to be contemplated by the Durham Coal & Iron Co. (the \$10,000,000 enterprise recently detailed by the MANUFACTURERS RECORD), and it is proposed to organize the Chattanooga Estates Co., with \$6,000,000 capital stock, to undertake the industrial land development of about 8000 acres, including 14 miles of river front. Chas. B. Eddy of New York, president of the Durham Coal & Iron Co., and his associates are forming the Chattanooga Estates Co. Mr. Eddy telegraphs the MANUFACTURERS RECORD that this latter company has not permanently organized or been financed, and that the land purchases have not been completed.

Seeking Location for Factory.

The New River Lumber Co. of Roanoke, Va., writes the MANUFACTURERS RECORD that it is seeking a factory location in the South. This company needs a site in some section where tupelo gum, poplar, cottonwood or white cedar timber can be obtained in large quantities at low prices. It is to use the timber for manufacturing colonial porch columns, and has the necessary machinery. The timber is to be from 8 to 12 inches in diameter.

The first of 10 barges of steel construction manufactured at the Ambridge Works of the American Bridge Co., for use in transporting products of the Pittsburg district to Southern markets by way of the Ohio and Mississippi rivers has been completed, according to the Louisville Courier-Journal. The barge is 200 feet long, 36-foot beam and 10 feet, 6 inches deep, with a capacity of 1400 gross tons on a nine-foot draft.

The collier Neptune, built by the Maryland Steel Co. for the United States Navy, was launched last week at Sparrows Point. It is to be driven by turbines of sufficient power to give it an average speed of 14 knots an hour when loaded with 12,500

tons of coal and drawing 27 feet 6 inches of water.

At Highland Springs, Va., an association has been formed to promote drainage of the Chickahominy region, with Dr. D. W. Starbuck, president; R. W. Tanner, vice-president; W. J. Strain, secretary, and Richard Horn, treasurer.

The reports to the Census Bureau show that 11,254,115 bales of the 1910 growth of cotton were ginned up to January 16, as compared with 9,787,592 bales of 1909 and 12,656,203 of 1908 for the same period.

The address of President L. E. Johnson of the Norfolk & Western Railroad Co. before the Virginia State Farmers' Institute at Roanoke on January 12 has been published in attractive pamphlet form.

FINANCIAL NEWS

The MANUFACTURERS RECORD invites information about Southern financial matters, items of news about new institutions, dividends declared, securities to be issued, openings for new banks, and general discussions of financial subjects bearing upon Southern matters.

Review of the Baltimore Market.

Office MANUFACTURERS RECORD.

Baltimore, Md., January 25.

The Baltimore stock market was active during the past week, with considerable interest in the speculative issues. In the trading United Railways common sold at 16½ to 17; do. trust certificates, 17½ to 17¾; do. income bonds, 62½ to 62¾; do. funding 5s, 85¼ to 86; do. do. scrip, 85¼ to 86; United 4s, 85; United Electric Light & Power 4½s, 92; Consolidated Gas, Electric Light & Power common, 64½ to 76; do. preferred, 90 to 93; do. 4½s, 84½ to 85½; do. notes, 99 to 99½; Consolidated Gas 4½s, 93; Seaboard Air Line common, 22; do. preferred, 36¼ to 36½; Seaboard Company common, 23½ to 24¼; do. first preferred, 82½ to 85; do. second preferred, 48½ to 48¾; reacting to 47¼ and advancing then to 49; Seaboard 4s, stamped, 87 to 87½; reacting to 87, with last sale at 87½; Seaboard three-year 5s, 100¼; do. 10-year 5s, 100¼; do. adjustment 5s, 77½ to 77¾; Consolidated Cotton Duck preferred, 19; Mt. Vernon-Woodberry Cotton Duck 5s, 74½ to 74¾, with last sale at 74½; G. B. S. Brewing common, 1; do. 4s, 44 to 44½.

Bank stock sold as follows: Exchange, 159; Mechanics', 281½; Farmers and Merchants', 48½ to 49; Merchants', 181 to 183, with last sale at 182; Bank of Baltimore, 150; Marine, 43; Union, 136. United States Fidelity & Guaranty sold at 150 to 155; Fidelity & Deposit, 151 to 157; Baltimore Trust, 164; Maryland Trust common, 78½ to 80; American Bonding, ex dividend, 78½; Maryland Casualty, 97½.

Other securities were traded in thus: Atlantic Coast Line of Connecticut, 230; Atlantic Coast Line consolidated 4s, 94¼; Georgia Southern & Florida 5s, 107¼; Northern Central Railway stock, 122¾ to 124; Wilmington & Weldon 5s, 110½; Consolidated Coal receipts (25 per cent. paid), 26¼ to 27½; Georgia & Alabama consolidated 5s, 104½ to 104¾; Houston Oil preferred, 47½ to 47; Maryland Electric 5s, 96½ to 97¾, with last sale at 97¾; Knoxville Traction 5s, 103½ to 104; Atlantic Coast Line convertible debenture 4s, 97¾ to 98; Carolina Power & Light 5s, 92½; Macon, Dublin & Savannah 5s, 97¾ to 98¼; Baltimore, Sparrows Point & Chesapeake 4½s, 95¼ to 96; Virginia Midland 2d, 100¼; Western Maryland 4s, 86¼; Atlantic Coast Line of Connecticut 5-20s, 91; Alabama Consolidated Coal & Iron common, 25 to 26½; do. preferred, 50 to 58; Baltimore City 3½s, 1940, 92 to 93; do. 5s, 1916, F. L. 102½; do. do. do. W. L., 103; Consolidation Coal, 103¾ to 104, and ex dividend 102½; West Virginia Central 6s, 100¾; Baltimore City 3½s, 1930, 93¼; do. do. 1928, 93½; Atlanta Consolidated Street Railway 5s, 105¼ to 105; Baltimore Electric 5s, stamped, 87¾; Carolina Central 4s, 92¾; Detroit United 4½s, 79¾; Norfolk Railway & Light 5s, 98½; do. stock, 21¾; Newport News & Old Point 5s, 93 to 92; Baltimore & Potomac main line 6s, 100¼; Baltimore Traction 5s, 107¼; Georgia,

Carolina & Northern 5s, 105¾ to 106; Memphis Street Railway 5s, 97; Baltimore City 3½s, 1936, 93; Baltimore City Passenger 5s, 100; City & Suburban (Washington) 5s, 103¾; Atlantic Coast Line of South Carolina 4s, 97½; Maryland & Pennsylvania common, 22½; United States Steel, 77¾; Alabama Consolidated Coal & Iron 5s, 80; Jamison Coal & Coke, George's Creek 5s, 90½.

SECURITIES AT BALTIMORE.

Last Quotations for the Week Ended January 25, 1911.

Railroad Stocks.	Par.	Bid.	Asked.
Atlantic Coast Line.....	100	119½	120
Atlantic Coast of Conn.....	100	227½	230
Charleston Consolidated.....	50	32	33
Norfolk Railway & Light.....	25	22	23½
Seaboard Co. Common.....	100	24	24½
Seaboard Co. 1st Pfd.....	100	85	86
Seaboard Co. 2d Pfd.....	100	48½	49
United Ry. & Elec. Co.....	50	16½	17

Bank Stocks.	Par.	Bid.	Asked.
Citizens.....	10	41½	42½
Producers & Mechanics.....	100	22½	23½
Farmers & Merchants.....	40	48	49
First National.....	100	140	145
Merchants.....	100	182	183
Bank of Baltimore.....	100	150	160
Exchange.....	100	150	165½
Howard.....	10	11½	12
Marine.....	30	41½	45
Mechanics.....	100	28	28½
Union.....	100	136	137
Old Town.....	10	12½	13
Western.....	20	37	38

Trust, Fidelity and Casualty Stocks.	Par.	Bid.	Asked.
Baltimore Trust.....	100	165	166
Continental Trust.....	100	242½	243
Fidelity & Deposit.....	50	156½	160
Maryland Trust.....	100	79½	80
Maryland Trust Pfd.....	100	105	110
Maryland Casualty.....	25	57½	58
Mercantile Trust & Deposit.....	50	141	145
Union Trust.....	50	69	71
U. S. Fidelity & Guaranty.....	100	154	160

Miscellaneous Stocks.	Par.	Bid.	Asked.
Ala. Con. Coal & Iron.....	100	27	35
Ala. Con. Coal & Iron Pfd.....	100	57	61
Baltimore Brick.....	100	2½	3
Con. Cotton Duck Common.....	50	8	8
Con. Cotton Duck Pfd.....	50	23	23
Con. Gas, Elec. Lt. & P. Com.....	100	15	15
Con. Gas, Elec. Lt. & P. Pfd.....	100	82	93
Consolidation Coal.....	100	102	103

Railroad Bonds.	Par.	Bid.	Asked.
Atlanta & Birmingham 4s.....	100	85½	86
Atlantic Coast 1st 4s.....	100	92½	94¼
Atlantic Coast Conv. Pfd. 4s.....	100	97½	98
At. Coast (Conn.) 4s, Cfs., 5-2½s.....	100	90½	92½
Atlantic Coast (Conn.) 5s, Cfs.....	100	103	104
Atlantic Coast 4s, Cfs.....	100	84	90
Atlantic Coast (S. C.) 4s.....	100	97½	98
Carolina Central 4s.....	100	92½	93
Coal & Coke Railway 5s.....	100	90	95
Coal & Iron Railway 5s.....	100	102	103
Col. & Green, 1st 6s.....	100	107½	108
Florida Southern 4s.....	100	92½	93
Georgia & Alabama 5s.....	100	104½	105
Georgia Midland 5s.....	100	104½	105
Georgia, Car. & North, 1st 5s.....	100	113½	114½
Georgia Pacific 1st 6s.....	100	107	108
Georgia Southern & Florida 1st 5s.....	100	97½	98½
Macon, Dublin & Savannah 5s.....	100	85	85
Maryland & Pennsylvania 4s.....	100	107½	108
Petersburg Class A 6s.....	100	116	116
Piedmont & Cumberland 1st 5s.....	100	99½	100
Potomac Valley 1st 5s.....	100	107	107
Richmond & Danville 6s.....	100	103½	106
Savannah, Fla. & West, 6s.....	100	124½	125
Seaboard Air Line 4s.....	100	87½	87½
Seaboard 4s, Stamped.....	100	87½	87½
Seaboard Adjustment 5s.....	100	77½	77½
Seaboard 10-year 5s.....	100	100½	100½
Seaboard 3-year 5s.....	100	100½	100½
Seaboard & Roanoke 5s.....	100	105	107
Seaboard & Roanoke 6s.....	100	100	100
Southern Railway Co. 5s.....	100	107	107
Virginia Midland 2d 6s.....	100	100½	100½
Virginia Midland 3d 6s.....	100	106	106
Virginia Midland 4th 5s.....	100	106	106
Virginia Midland 5th 7s.....	100	103½	103½
Virginia Midland G. M. 5s.....	100	107	108½
Western Maryland 4s.....	100	80½	87
West Virginia Central 1st 6s.....	100	100½	100½
Wilmington & Weldon 5s.....	100	110½	110½
Washington & Vandemere 4½s.....	100	94	100

Street Railway Bonds.	Par.	Bid.	Asked.
Anacostia & Potomac 5s.....	100	103½	104
Anacostia & Potomac 5s, Gtd.....	100	102	103
Atlanta Con. Street Railway 5s.....	100	104½	105¼
Augusta Railway & Electric 5s.....	100	91	102
Baltimore City Passenger 4½s.....	100	99½	100½
Baltimore City Passenger 4½s.....	100	99½	100½
Balto., Sp. Pl. & C. 4½s.....	100	96	90½
Baltimore Traction 1st 5s.....	100	97	108
Baltimore Traction (N. B.) 5s.....	100	110	110
Central Railway (Balto.) Com. 5s.....	100	107½	107½
Central Railway (Balto.) Ext. 5s.....	100	107½	107½
Charleston City Railway 5s.....	100	102	102
Charleston Con. Elec. 5s.....	100	96½	97
City & Suburban 5s (Balto.).....	100	106	106
City & Suburban 5s (Wash.).....	100	102½	103½
Fairmont & Clarksburg Trac. 5s.....	100	90½	97
Knoxville Traction 5s.....	100	103½	104
Lake Roland Elevated 5s.....	100	109	109
Lexington Railway 1st 5s.....	100	96	96
Macon Railway & Light 5s.....	100	96	96
Maryland Electric Railway 5s.....	100	97½	97½
Memphis Street Railway 5s.....	100	97½	97½
Newport News & Old Point 5s.....	100	92	93½
Newport News & Old Pt. G. M. 5s.....	100	59	74
Norfolk & Portsmouth Traction 5s.....	100	80	83
Norfolk Railway & Light 5s.....	100	97	99
Norfolk Street Railway 5s.....	100	107	108
United Railways 1st 4s.....	100	84½	85
United Railways Inc. 4s.....	100	62½	62½
United Railways Funding 5s.....	100	85½	86

Miscellaneous Bonds.	Par.	Bid.	Asked.
Ala. Con. Coal & Iron 5s.....	100	80	81
Ala. Con. Coal & Iron 1st 5s.....	100	101	102
Baltimore Brick 5s.....	100	79½	82
Baltimore Electric 5s, Stp.....	100	87½	88
Consolidated Gas 5s.....	100	108	108
Consolidated Gas 4½s.....	100	93	93½
Consolidated Gas 4½s, Cfs.....	100	95½	96
Consolidated Gas (Ky.) 5s.....	100	104½	104½
Con. Gas, Elec. Lt. & P. 4½s.....	100	85½	85½
Con. Gas, Elec. Lt. & P. Notes.....	100	99	99
Consolidation Coal Refdg. 4½s.....	100	93½	94

Fairmont Coal 1st 5s.....	92½	93½
G. B. S. Brewing 1st 4s.....	41	45
Maryland Telephone 5s.....	99½	100½
Mt. Vernon-Woodberry Cot. Duck 5s.....	74½	74½
Somerset Coal 5s.....	109½	110
United Elec. Lt. & P. 4½s.....	91½	92½

SOUTHERN COTTON-MILL STOCKS.

Quotations Furnished by Hugh MacRae & Co., Wilmington, N. C., for Week Ending January 23.

	Bid.	Asked.
Abbeville Cotton Mills (S. C.).....	72½	73
Aiken Mfg. Co. (S. C.).....	90	90
American Spinning Co. (S. C.).....	160	165
Anderson Cotton Mills (S. C.).....	50	50
Anderson Cot. Mills (S. C.) Pfd.....	90	90
Arkwright Mills (S. C.).....	100	103
Augusta Factory (Ga.).....	50	51
Avondale Mills (Ala.).....	116	125
Belton Mills (S. C.).....	135	145
Bibb Mfg. Co. (Ga.).....	114	114
Brandon Mills (S. C.).....	100	100
Cabarrus Cotton Mills (N. C.).....	125	140
Chadwick-Hoskins Mfg. Co. (N. C.).....	100	100
Chadwick-Hoskins Mfg. Co. (N. C.) Pfd.....	102	102
Chilhowie Mfg. Co. (S. C.).....	170	175
Clifton Mfg. Co. (S. C.).....	90	92½
Clifton Mfg. Co. (S. C.) Pfd.....	100	100
Columbus Cotton Mills (Ga.).....	93	98
Courtenay Mfg. Co. (S. C.).....	90	100
Dallas Mfg. Co. (Ala.).....	98	110
Darlington Mfg. Co. (S. C.).....	80	85
Dayton Mfg. Co. (Ala.).....	100	100
Eagle & Phoenix Mills (Ga.).....	110	110
Easton Cotton Mills (S. C.).....	100	100
Enoree Mfg. Co. (S. C.).....	54	54
Enoree Mfg. Co. (S. C.) Pfd.....	100	100
Enterprise Mfg. Co. (Ga.).....	80	85
Exposition Cotton Mills (Ga.).....	195	200
Gaffney Mfg. Co. (S. C.).....	71	74
Graniteville Mfg. Co. (S. C.).....	150	150
Granby Cot. Mills (S. C.) 1st Pfd.....	35	35
Graniteville Mfg. Co. (S. C.) Pfd.....	161	161
Greenwood Cotton Mills (S. C.).....	58	61
Greenville Mills (S. C.).....	119	119
Henrietta Mills (N. C.).....	100	115
King, John P. (Ga.).....	85	85
Lancaster Cotton Mills (S. C.).....	130	130
Lancaster Cot. Mills (S. C.) Pfd.....	97	100
Langley Mfg. Co. (S. C.).....	120	120
Laurens Cotton Mills (S. C.).....	113	113
Limestone Mills (S. C.).....	150	170
Lockhart Mills (S. C.) Pfd.....	99	100
Lockhart Mills (S. C.) Pfd.....	95	98
Macon Cotton Mills (S. C.).....	75	75
Mary Mills (N. C.).....	120	120
Mills Mfg. Co. (S. C.).....	100	100
Mills Mfg. Co. (S. C.) Pfd.....	100	100
Monaghan Mills (S. C.).....	100	105
Monarch Cotton Mills (S. C.).....	102	110
Newberry Cotton Mills (S. C.).....	125	130
Norris Cotton Mills (S. C.).....	125	130
Olympia Cot. Mills (S. C.) 1st Pfd.....	90	90
Orangeburg Mfg. Co. (S. C.) 1st Pfd.....	100	105
Orre Cotton Mills (S. C.).....	100	105
Paelet Mfg. Co. (S. C.).....	95	95
Paelet Mfg. Co. (S. C.) Pfd.....	98	100½
Pelzer Mfg. Co. (S. C.).....	150	160
Piedmont Mfg. Co. (S. C.).....	171	171
Poe Mfg. Co. (S. C.).....	125	125
Richland Cot. Mills (S. C.) 1st Pfd.....	45	45
Raleigh Cotton Mills (N. C.).....	100	100
Roanoke Mills (Va.).....	153	200
Saxon Mills (S. C.).....	127	127
Sibley Mfg. Co. (Ga.).....	65	70
Spartan Mills (S. C.).....	140	140
Springstein Mills (S. C.).....	100	100
Tupacum Mills (S. C.).....	200	200
Trion Mfg. Co. (Ga.).....	127½	127½
Union-Buffalo Mills 1st Pfd.....	61	61
Victor Mfg. Co. (S. C.).....	110	115½
Warren Mfg. Co. (S. C.).....	95	100
Warren Mfg. Co. (S. C.) Pfd.....	100	105
Washington Mills (Va.).....	28	28
Washington Mills (Va.) Pfd.....	100	100
Whitney Mfg. Co. (S. C.).....	120	125
Williamston Mills (S. C.).....	120	125
Wisnorsett Mills (N. C.).....	120	125
Woodruff Cotton Mills (S. C.).....	119	120
Woodside Cotton Mills (S. C.).....	98	98
Woodside Cot. Mills (S. C.) Pfd.....	98½	98½

Laray Cotton Mills (N. C.) Pfd.	95	97 1/2
Marlboro Cotton Mills (S. C.)	75	80
Mills Mfg. Co. (S. C.)	106	102
Molloy Mfg. Co. (S. C.)	106	110
Monaghan Mills (S. C.)	104	109
Monarch Cotton Mills (S. C.)	107	107
Newberry Cotton Mills (S. C.)	125	130
Ninety-Six Cotton Mills (S. C.)	140	150
Norris Cotton Mills (S. C.)	121	130
Olympia Cotton Mills (S. C.)	90	90
Orr Cotton Mills (S. C.)	102	102
Paclet Mfg. Co. (S. C.)	90	90
Paclet Mfg. Co. (S. C.) Pfd.	99	102
Peizer Mfg. Co. (S. C.)	169	169
Piedmont Mfg. Co. (S. C.)	175	177
Poe Mfg. Co., F. W. (S. C.)	110	125
Saxon Mills (S. C.)	130	130
Sibley Mfg. Co. (Ga.)	71	78
Spartan Mills (S. C.)	125	132
Trilon Mfg. Co. (Ga.)	130	130
Tucupau Mills (S. C.)	310	350
Union-Butte (S. C.) 1st Pfd.	74	80
Union-Butte (S. C.) 2d Pfd.	30	30
Victor Mfg. Co. (S. C.)	120	120
Warren Mfg. Co. (S. C.)	107	107
Warren Mfg. Co. (S. C.) Pfd.	106	110
Washington Mills (Va.)	28	28
Washington Mills (Va.) Pfd.	105	110
Whitney Mfg. Co. (S. C.)	120	120
Wiscasset Mills (N. C.)	135	135
Woodruff Cotton Mills (S. C.)	110	118
Woodside Cotton Mills (S. C.)	102	105
Watts Mills (S. C.)	85	90
Williamston Mills (S. C.)	120	125

Maryland Trust Report.

The Maryland Trust Co. of Baltimore has published its statement of condition at the close of business December 31, 1910, showing total assets \$2,628,918.90, including cash on deposit and on hand, \$110,322.03; loans on collateral, \$723,746.85; investments, \$1,715,807.21. The deposits amount to \$922,329.09. The excess of assets over liabilities, represented by undivided profits \$206,080.03, preferred stock \$500,000 and common stock \$1,000,000, amounts to \$1,706,080.03. The stockholders' examining committee employed certified public accountants to assist in the examination, and they verify its accuracy. The officers of the company are L. S. Zimmerman, president; Oscar G. Murray, first vice-president; Carroll Van Ness, second vice-president; Jervis Spencer, Jr., treasurer; Ivan Skinner, assistant secretary and treasurer.

A Useful Booklet.

Mackubin, Goodrich & Co., bankers, 110 E. German street, Baltimore, have issued their financial review of the year 1910. This booklet contains the high, low and last quotations for the year, and also the high and low for 1909 of all stocks and bonds on the Baltimore and New York Stock Exchanges. An important feature is the Baltimore city financial statement, which covers the taxable basis, the population and other information of value. The rule prepared by the judges of the Supreme Bench governing the investment of trust funds under the jurisdiction of the courts of Baltimore is also published. The book is of size convenient to be carried in the pocket.

FINANCIAL CORPORATIONS.

Ala., Aliceville.—The Merchants and Farmers' Bank, with an authorized capital of \$50,000, is reported to have begun business; G. E. Bowlin, president, and F. B. Carpenter, vice-president; E. F. Ballard of Aberdeen, Miss., is cashier.

Ala., Birmingham.—Official: The Columbia Loan & Investment Co. incorporated; capital \$100,000. F. W. Dixon, president; R. V. Mobly, vice-president, and R. B. Tarpy, secretary and treasurer. Business is to begin immediately.

Ala., Warrior.—Citizens' Bank of Warrior has applied for incorporation. Capital \$30,000. Officers, W. L. Sibley, president; V. S. Culwell, vice-president, and D. D. Burleson, cashier.

Ga., Cedartown.—National Home Fire Insurance Co. of Cedartown, says a dispatch, is chartered; capital \$100,000; surplus \$50,000; incorporators, State Senator W. J. Harris, J. W. Harris, Walter S. Coleman, E. B. Russell and Dr. L. S. Ledbetter. Reported an adjunct to the Georgia Fire Insurance Co.

Ga., Garfield.—Official: The Farmers and Merchants' Bank chartered; capital \$25,000; L. B. Holt, president, Sandersville, Ga.; E. A. Chance, vice-president, and N. A. Proctor, cashier, both of Garfield. Business is to begin February 15.

Ga., Griffin.—Reported that Griffin capitalists contemplate organizing a fire insurance

company with \$200,000 capital. The Mayor may be able to give information.

Ga., Macon.—Formal application has been made to charter the Capitol Savings Bank of Macon with capital of \$50,000, previously reported. The incorporators are John F. Cone of Macon, Alfred C. Newell of Atlanta, J. C. Morecock, Charles H. Cone, L. A. Braswell, J. B. Phillips, W. Henry Cone, W. L. Means and R. D. Aultman, all of Macon, Ga.

Ga., Screven.—The Screven Banking Co. is reported chartered with \$25,000 capital; incorporators, C. C. Grace, J. C. Hatcher, Jr., J. A. Hilton, I. D. Nichols and Silas Thornton.

Ga., Yatesville.—The Planters' Bank, capital \$25,000, is reported chartered by O. B. Clements, J. T. Lester, L. T. Matthews, C. J. McDonald and others.

Ky., Pewee Valley.—Official: The Pewee Valley State Bank, capital \$15,000, began business January 3 with Chas. R. Long, Jr., president, Wm. Ross vice-president, and Horace B. Pollock cashier.

La., Delcambre.—Official: Vermillion State Bank, a new concern, chartered with \$15,000 capital and began business January 3; directors, Dr. Adolphe Landry, president; Jos. A. LeBlanc, vice-president; G. P. Greig, cashier; A. T. Delcambre, Homer Landry, Theolin Landry, Jean Trahan, Justillan Thibodeaux, J. O. Broussard, Laodis LeBlanc and Felix Leleux.

La., Leesville.—Official: The West Louisiana Bank of Leesville chartered; capital \$25,000; directors, S. I. Foster, Joe Goldblot, R. L. Morgan, S. T. Ward, C. M. McFarland, A. L. Dreeben, M. V. Rudolph. Officers: S. T. Ward, president; C. M. McFarland and A. L. Dreeben, vice-presidents, and M. V. Rudolph, cashier. Business is to begin about February 15.

La., New Orleans.—The New Orleans Casualty Co. is reported organized with R. N. Sims, Donaldsonville, president; L. M. Pool, New Orleans, and John Dilbert, Litcher, vice-presidents, and E. G. Swartz of Burton, treasurer. The capital is \$150,000. Business is expected to begin within thirty days.

La., Patterson.—Citizens' State and Savings Bank, says a dispatch began business January 19; capital \$30,000; surplus \$500; W. D. Roussel, president, and A. S. Klempeter, cashier. It occupies its new building just completed.

La., Shreveport.—The Louisiana State Life Insurance Co., capital \$50,000, is reported organized with W. T. Crawford, president; J. Homer Jordan, vice-president; E. R. Bernstein, secretary; E. K. Smith, treasurer. Capital consists of \$250,000 stock and \$25,000 cash surplus. Other incorporators are R. R. Emery, J. C. Foster, W. E. Glassell, J. D. Wilkinson, H. H. Prescott, J. B. Atkins, C. W. Blair, T. G. Roberts, D. P. Batchelor, S. D. Hunter, J. A. Bell, Chas. C. McCleod, W. R. Hollingsworth, Jno. Jenkins, L. C. Bulkley, J. C. Willis, J. A. Hendricks, A. G. Curtis, H. Bodenheimer and S. B. McCutchen, all of Louisiana.

Md., Baltimore.—The Conservative Building Association of Baltimore City incorporated; capital \$1,300,000; incorporators, Walter Katzenstein, Irving H. Kohn, James Nathan, Lee E. Hartman and L. Edwin Goldman.

Md., Towson.—Wheeler & Cole, Insurance, capital \$20,000, are reported incorporated by Frank I. Wheeler, president; Thomas F. Gerey, Jr., secretary and treasurer, and William P. Cole.

Ms., Salisbury.—The Peninsula Trust Co. is reported, will begin business February 1 at Main and Dock Sts.; capital \$100,000.

Miss., Kilmichael.—Kilmichael Home Bank has applied for charter. Capital, \$20,000. Incorporators are J. P. Taylor, Winona; W. H. Hurt, F. M. Smith, J. T. Emerson, J. C. Canterbury and others of Kilmichael, Miss.

Miss., Meridian.—Southern Life Insurance Co. of Meridian has filed charter. Capital, \$50,000. Among those concerned are A. Nathaniel Glover, Fullerton, Cal.; George M. Wright and D. N. Kelly, Santa Ana, Cal.; D. F. Royer, E. E. Cox, Eugene C. Foster and others, Columbus, Miss.

Miss., Stewart.—Official: The Stewart State Bank incorporated; capital \$20,000; incorporators, J. B. Hanna, J. S. Powell, J. B. Harris, J. E. Bailey, John Q. Staples and H. R. Young. Business is to begin about March 15.

Miss., Summit.—Official: Union Bank of Pike, a new enterprise, incorporated with \$25,000 capital. Will begin business February 15. Wallace Atkinson is president, Eugene Atkinson vice-president, and J. L. Jackson cashier, who are also the directors.

Mo., Kansas City.—The American Union Trust Co. is reported to have begun business in the New York Life Bldg. Capital, \$1,000,

000. Officers, H. W. Richardson, first vice-president and acting president; Harry D. Coombs, second vice-president; H. H. Hettinger, third vice-president; A. W. Ehrlich, secretary; F. L. Johnson, assistant secretary; George W. Allison, treasurer; E. J. Hilkey, assistant treasurer.

Mo., Kennett.—The John H. Bradley Abstracting Co. of Kennett is reported chartered; capital \$5000; incorporators, John H. Bradley, John McAnally, J. A. Bradley and others.

Mo., St. Louis.—Mortgage Trust Co., capital \$500,000 and surplus \$100,000, incorporated. Affiliated with the Mortgage Guarantee Co. Incorporators, Tom W. Bennett, Fred G. Zebbig, J. D. P. Francis, Dwight F. Davis, Aaron Fuller, H. B. Collins, Edward L. Proctorius, Rolla Wells, A. L. Shapleigh, Moses Shoenberg, Richard T. Shelton, Lloyd P. Wells, Eugene F. Williams, Lawrence Kennedy and O. W. O'Meara. The first eleven are also directors. Mr. Bennett is the principal stockholder, and is president of the Mortgage Guarantee Co.

Mo., St. Louis.—The Hyperion Realty & Construction Co., capital \$40,000, is incorporated by D. B. Parker, E. R. Eddins and H. E. Fleck.

Mo., St. Louis.—Official: Farmers' Land & Loan Co., a new concern, incorporated with \$1,000,000 capital, half paid up. Begins business February 1. G. L. Williams is president, Wm. H. O'Brien vice-president and counsel, S. Lee Elliott vice-president, W. L. Wright treasurer, S. B. Stewart secretary.

N. C., Charlotte.—The National Trust Co. is reported incorporated with an authorized capital of \$125,000. The stockholders are F. H. Bradley, Mrs. L. J. Howard and E. R. Preston.

N. C., Winston-Salem.—Announcement is published that application will be made to the Legislature to charter the Winston Loan & Trust Co. with authorized capital of \$500,000.

N. C., Union Mills.—The People's Bank of Union Mills is reported to have begun business with a paid-in capital of \$6000. J. D. Morris of Union Mills is president and T. M. Minniss cashier.

Okla., Hobart.—Official: The Williams-Doolin Company incorporated; capital \$25,000; incorporators, John R. Williams, Hobart, Okla.; J. B. Doolin, Alva, Okla., and M. E. Williams, Oklahoma City. Business is to begin immediately.

Okla., Milburn.—First National Bank of Milburn, capital \$25,000, reported chartered to succeed to Johnston County State Bank of Milburn. Jas. R. McKinney is president, Z. W. Rains vice-president, J. W. Walker cashier.

Okla., Oklahoma City.—Industrial Securities Co. reported being organized and will apply for charter to locate industrial and commercial enterprises in Oklahoma. Capital, \$50,000. Offices, 1111 Colcord Bldg., West Grand and Robinson Aves., Oklahoma City. E. J. Deu Free, J. V. Cabell and Dr. J. M. Postelle are named as organizers.

Okla., Shawnee.—The Union State Bank is reported chartered with \$5,000 capital. Incorporators: Martin C. Flemming, F. J. Flemming, Scott Glen and F. W. Mohelacker, all of Shawnee.

S. C., Columbia.—The Argus Investment Co. of Columbia is reported chartered with \$50,000 capital; W. D. Melton, president; August Kohn, vice-president, and W. Gordon Belsor, secretary.

S. C., Fort Mill.—Application has been made to the Controller of the Currency to organize the First National Bank of Fort Mill, capital \$25,000. T. S. Kirkpatrick, J. W. Arlrey, B. S. Pratt and L. A. Harris are interested.

S. C., Hartsville.—The Palmetto Perpetual Building and Loan Association is reported chartered; capital \$500,000; petitioners, J. L. Paul, D. A. Elbert and L. W. Coker.

S. C., Olanta.—The Farmers' Bank of Olanta is reported to have been granted a commission; capital, \$10,000; petitioners, S. J. Tomlinson, R. E. Smith and S. M. Young.

S. C., Orangeburg.—Official: The Orangeburg Trust Co. incorporated; capital \$1500. Business has begun with J. A. Berry, president; C. B. Langston, manager, and J. M. O'Dowd, secretary and treasurer.

S. C., Sumter.—People's Building and Loan Association of Sumter commissioned; capital \$150,000; G. L. Warren and R. J. Bland are petitioners for charter.

S. C., Sumter.—National Loan Co. of Sumter reported chartered; capital \$1000; T. W. Smith is president, R. W. Brown vice-president, G. W. Zelgler secretary and treasurer.

Tenn., Memphis.—Official: The Southern Trust Co. incorporated; capital \$25,000. Incorporators: S. E. Ragland, S. R. Martin,

E. Oppenheimer, W. T. Hudson and F. Zimmerman. Business is to begin about February 1.

Tenn., Nashville.—Fite, Eckhardt & Co., capital \$20,000, are reported to have applied for charter to conduct general insurance business. Incorporators, Robert H. Fite, Theo. W. Eckhardt, Harry L. Albright, L. H. Davis, Thos. G. Moore, H. T. Cotton and Louis T. Cunniff.

Tex., Asherton.—Asherton State Bank, capital \$10,000, filed charter. Incorporators, Asher Richardson, R. W. Taylor and E. R. Spencer.

Tex., Ben Franklin.—The First State Bank of Ben Franklin is reported chartered with \$10,000 capital. Incorporators: W. E. Welden, A. E. Sweeney, W. N. Miller and C. H. Welden.

Tex., Fort Worth.—The Bankers' Trust Co., capital \$100,000, is reported incorporated by R. T. Stuart, Coke W. Harkrider, M. H. Mills, W. S. Harrison, John Seabauer and William Capps.

Tex., Kenedy.—The Kenedy Loan & Investment Co. of Kenedy, capital \$25,000, is reported incorporated by V. T. Courson, L. E. Bain and J. B. Cannon.

Tex., Lindale.—The Guaranty State Bank of Lindale, capital \$10,000, has been granted a charter; incorporators, R. G. Marshman, H. W. Owens and A. M. Brosly.

Tex., North Zulch.—A dispatch says that residents of North Zulch are organizing a State bank, the necessary funds having been subscribed.

Tex., Yantis.—The Yantis State Bank, capital \$25,000 is reported chartered; incorporators, W. R. D. Willett, Dr. T. B. McAnally, W. M. Craddock and others.

Va., Jonesville.—Official: Powell Valley National Bank of Jonesville chartered to succeed the Powell Valley Bank; capital \$50,000. Will begin business as a national bank February 1. Robert L. Pennington, president; J. O. Woodward, vice-president; C. E. Cook, cashier, all of Jonesville.

Va., Lovington.—The Bank of Nelson is reported chartered; capital \$10,000 to \$20,000; E. L. Kidd, president; W. B. Lea, vice-president; R. L. Camden, secretary and cashier.

Va., Richmond.—Kentucky Securities Corporation chartered, with headquarters at Richmond, Va. Maximum capital, \$5,000,000. Officers, Percy M. Chandler, president; J. K. Trimble, secretary; J. N. Trimble, treasurer, all of Philadelphia; directors, Percy M. Chandler and John A. McCarthy of Philadelphia; Thomas B. Gay, Richmond, Va.; Caldwell Hardy, Norfolk, Va.; G. W. Cook, Lansdowne, Pa., and Howard Leeb, Elkins Park, Pa.

NEW SECURITIES.

Ala., Bessemer.—Reported that an election is to be held February 27 to vote on \$75,000 of bonds to pay off city's floating indebtedness; W. S. Welsh, W. P. Gunn and C. E. Falkner, managers.

Ala., Birmingham.—Reported that it is proposed to hold an election in Jefferson county to vote on \$1,000,000 of road bonds.

Ala., Montgomery.—The City Council has, it is reported, taken steps to float the \$40,000 of paving bonds recently authorized.

Ala., Mobile.—Official: No details yet decided regarding proposed bond issue. Geo. E. Stone is treasurer.

Ala., Mobile.—Press dispatches state that the Equitable Life Assurance Society of New York has been awarded at par and accrued interest \$147,000 of street-improvement bonds. Pat J. Lyons is Mayor.

Ala., Selma.—The good roads bonds issued by Dallas county amount to \$250,000, of which, as previously reported, \$100,000 have been sold to the City National Bank of Selma, but it is further stated that another lot will not be disposed of until the proceeds of the first have been used for road work.

Ark., Conway.—\$68,000 of water-works bonds are reported sold to the Southern Trust Co. of Little Rock, Ark., at 19.

Ark., Eldorado.—Reported that \$5000 of bonds have been sold to the American Bank & Trust Co. of Eldorado.

Ark., Fort Smith.—Official: The Mercantile Trust Co. of St. Louis, Mo., has been awarded \$600,000 of 5 per cent. 20-year bonds of Fort Smith and Van Buren districts to construct bridge across the Arkansas River; denomination \$1000. There will also be a bond issue soon for \$600,000 to purchase the privately-owned water plant of Fort Smith. W. J. Johnston is Mayor.

Ark., Jonesboro.—J. H. Burke, commissioner of Craighead county, is reported to have sold \$25,000 of 6 per cent. bonds of Drainage District No. 4, Craighead county, to Clyd-

A. Wall of La Grange, Ind. Bonds are payable in 1925.

Ark., Luxora.—The Wm. R. Compton Company of St. Louis is reported to have bought at par the \$12,000 of 6 per cent. school bonds.

Fla., Pensacola.—The Providence Savings Bank & Trust Co. of Cincinnati, according to press dispatches, was awarded at \$240,627 for the entire issue the \$250,000 of 4½ per cent. improvement bonds. The bonds were awarded by the bond trustees, subject to the approval of the City Council.

Fla., Sarasota.—The Council is reported to have voted to bond the town and construct a water-works and sewerage system.

Ga., Boston.—Official: Bids will be received by S. R. Blanton, Mayor, until March 1 for \$12,000 of 20-year school bonds; denomination \$1000.

Ga., College Park.—An official letter confirms report that J. H. Hillsman & Co. of Atlanta were awarded at a premium of \$750 and interest \$65,000 of 5 per cent. serial bonds, \$50,000 being for water and sewers and \$15,000 for electric lights; denomination \$1000. B. S. Hule is Mayor.

Ga., Doerun.—The bond election carried recently was for \$5500 school-building and \$6500 water-works bonds, 6 per cent. 30-year.

Ga., Dublin.—Reported that J. H. Hillsman & Co. of Atlanta have been awarded the \$30,000 of light, water and street paving bonds at 104 for 5 per cents.

Ga., Fairburn.—Official: Voted: \$10,000 of 20-year electric-light and \$20,000 of 30-year water-works 5 per cent. bonds; denomination \$500; date of opening bids to be decided January 23. W. B. Green is City Clerk.

Ga., Fort Valley.—Reported that the City Council has provided for an election on \$30,000 of school-building bonds.

Ga., Sparta.—Official: Bids will be received until 11 A. M. February 2 for \$10,000 of 5 per cent. water-works bonds; denomination, \$500; dated January 2, 1911. W. H. Stansell is City Clerk.

Ga., Swainsboro.—An official letter says that an election is soon to be held for an issue of \$10,000 of municipal bonds.

Ga., Thomaston.—An election. It is reported, will be held February 13 in Upson county on \$100,000 of 5 per cent. 30-year good-roads bonds; denomination \$1000.

Ky., Winchester.—Bids will be received by J. A. Hughes, Mayor, until 8 P. M. February 5 for \$40,000 of 4½ per cent. 20-year bonds for purchasing site and erecting a city building. S. B. Tracy is City Clerk.

La., Houma.—Official: \$10,000 of 5 per cent. school-building bonds of District No. 5, parish of Terrebonne, voted and will be issued in about 90 days; will mature annually. John M. Foote is school treasurer.

La., Shreveport.—Reported that it is contemplated to issue \$250,000 of 4½ per cent. municipal bonds.

La., St. Bernard.—The \$7000 of 5 per cent. Lake Borgne levee improvement bonds, denomination \$1000, are reported sold to Daniel C. Holden.

Md., Brunswick.—A report says that \$5000 of 4½ per cent. 10-25-year street improvement bonds offered December 6 and not sold may be again offered.

Md., Centerville.—Official: Bids will be received until noon January 31 by the Commissioners of Queen Anne's County, Madison B. Bordley, clerk, for \$15,000 of 5 per cent. road-equipment bonds; denomination \$1000; dated January 1, 1911; one bond due July 1 of each year beginning July 1, 1911.

Md., Easton.—Official: February 23 an election is to be held to vote on \$40,000 of 4 per cent. sanitary sewer bonds; denomination \$1000. Address Martin M. Higgins, Mayor, and the Council.

Miss., Greenwood.—Official: Bids will be received until noon February 6 for \$60,000 of 5 per cent. 30-year Leflore county bridge bonds. W. T. Chapman is County Treasurer.

Miss., Hattiesburg.—A report says that the sale of \$100,000 of 5 per cent. 30-year Normal College bonds was made to Well, Roth & Co. of Cincinnati at 100.10.

Miss., Mendenhall.—The supervisors of Simpson county are reported to have authorized the sale of \$40,000 of road bonds.

Miss., Meridian.—A proposition to issue \$100,000 of school bonds is reported under consideration.

Miss., Starkville.—E. O. McIlwain, chancery clerk of Oktibbeha county, will, it is reported, receive bids until noon February 6 for \$20,000 of 5 per cent. road-improvement bonds.

Mo., Carrollton.—Bids will be received by E. E. Farnham, Secretary Board of Education, until noon, January 20, for \$50,000 of 4 per cent. 5-20-year school district building

bonds; denomination \$500; dated August 1, 1909.

Mo., Webb City.—Reported defeated: \$25,000 of bonds for cemetery site.

N. C., Durham.—A bill is to be introduced in the Legislature, it is reported, providing for \$180,000 of bonds to pay off floating indebtedness.

N. C., Nashville.—The city will ask the Legislature for authority to issue \$50,000 of school-building improvement bonds. It is also proposed to issue \$482,000 of refunding bonds to take care of loans maturing next July.

N. C., Charlotte.—The proposed issue of \$1,000,000 of bonds for which it is contemplated to ask authority of the Legislature to call an election is thus: \$325,000 for water; \$250,000 for streets; \$250,000 for sewers, and \$175,000 for schools. T. W. Hawkins is Mayor.

N. C., Raleigh.—A bill has been introduced in the Legislature to authorize an issue of \$1,000,000 of 4 per cent. 40-year North Carolina bonds for a State administration building in Raleigh.

Okla., Claremore.—Bids are reported being received indefinitely for \$5000 of 5 per cent. school building and equipment bonds. H. Jennings is clerk of the Board of Education.

Okla., Collinsville.—\$37,500 of 6 per cent. water-works bonds are reported sold at par to R. J. Edwards of Oklahoma City.

Okla., Duncan.—Official: Geo. I. Gilbert of Oklahoma City, Okla., has purchased the \$12,000 of water-works extension and \$38,000 of sewer 6 per cent. 25-year bonds voted January 10, 1911; dated January 1, 1911. Erle W. Loyd is City Clerk.

Okla., El Reno.—The \$250,000 of water-works bonds reported sold to A. J. McMahon of Oklahoma City at par were 5 per cents., 25 year.

Okla., Heavener.—R. J. Edwards of Oklahoma City, says a report, recently purchased the \$50,000 of 6 per cent. 25-year water-works bonds at par and interest.

Okla., Okmulgee.—Reported that \$25,000 of bonds recently authorized to take up outstanding Okmulgee county warrants have been sold through McMahon & Co. of Oklahoma City at 1 per cent. above par.

Okla., Perry.—Official: \$30,000 of 5 per cent. 20-year high-school bonds, denomination \$500, voted December 1 and to be dated February 1, 1911, are sold to the Oklahoma Bond & Trust Co. of Oklahoma City. C. D. Jensen is clerk of the Board of Education.

Okla., Shawnee.—R. C. O. Mathews of Springfield, Ill., it is reported, bought \$10,000 at 100.20, and the State National Bank of Shawnee, Okla., \$10,000 at par of the \$50,000 of 5 per cent. school-building bonds dated July 1 last, denomination \$1000, maturing in 25 years.

S. C., Rock Hill.—A letter says that the light, water and sewer bonds issued by Rock Hill are declared valid by the Supreme Court of South Carolina. About \$150,000 will be for sewers, \$100,000 for water supply and mains and \$35,000 for electric-light plant.

S. C., Sumter.—The commissioners of Sumter county are reported to have authorized an issue of \$10,000 of 4½ per cent. 20-year road bonds.

S. C., Union.—A telegram says that the \$75,000 of 4½ per cent. 20-year courthouse bonds have been sold to the Security Trust Co. of Spartanburg, S. C., at rather better than 4½ per cent.

Tenn., Bristol.—An official writes that the contemplated issue of \$100,000 of Sullivan county bonds to complete road work will probably not be issued this year, as the funds now on hand are sufficient for work during 1911.

Tenn., Birmingham.—Reported that a bill has been introduced in the Legislature providing for \$20,000 of school and sewer bonds.

Tenn., Chattanooga.—The Legislature now in session has been requested to pass enabling acts so that Hamilton county can hereafter issue \$500,000 of bonds for road improvements: \$125,000 to pay off indebtedness already incurred for schools; \$100,000 to finish Rossville boulevard; \$400,000 for criminal court building, and \$350,000 to cover cost of building courthouse for Hamilton county. Hamilton county has also been ordered to issue \$250,000 of bonds for constructing bridge across Tennessee river above the present Walnut St. bridge; \$300,000 to build a bridge west of the Walnut St. bridge across the Tennessee river, between Henry and Sixth Sts. In addition to this, it is said that \$65,000 have also been authorized to construct road across Lookout Mountain.

Tenn., Jonesboro.—The question of asking the Legislature for authority to vote on \$100,000 of road bonds for this (Washington) county is reported under consideration.

Tenn., Rogersville.—Reported that \$40,000 of road bonds and \$20,000 of bridge 5 per cent. warrants have been authorized by the Hawkins County Commissioners. It is said that the Pike Roads Commissioners, Walter Smith, chairman, are offering for sale on February 2 the \$20,000 of bridge bonds in denominations of \$500 and \$1000.

Tex., Abilene.—A dispatch says that County Judge T. A. Bledsoe confirms report of sale of \$150,000 Precinct No. 1 Taylor county road bonds at par and interest to Abilene banks and Eastern parties.

Tex., Andrews.—\$8000 of 5 per cent. 10-20 courthouse bonds are reported voted.

Tex., Austin.—The Attorney-General has approved securities as follows: \$500 of 5 per cent. 10-20-year bonds of Trinity School Corporation of Trinity College; \$11,300 of 5 per cent. 10-20-year San Saba county common school district bonds; \$800 of 5 per cent. bonds of school district 61 of Fayette county; \$25,000 of 5 per cent. Beeville 10-40 school bonds; \$2000 Brazos county 5 per cent. 10-20 school bonds; \$1500 of 5 per cent. 20-year Frio county school bonds.

Tex., Calvert.—The City Council, it is reported, will call an election in April on \$20,000 of city hall bonds.

Tex., Dallas.—The Commissioners are reported to have authorized the issue of \$23,000 of bridge-repair bonds.

Tex., Denison.—Reported that on February 23 city will sell \$50,000 of reservoir bonds.

Tex., Fort Worth.—Bonds are reported voted at the recent election thus: \$1,350,000 water-works extension, \$150,000 water-works funding, \$120,000 police station, \$35,000 fire hall, \$50,000 street extension, \$20,000 hospital and \$15,000 city warehouse.

Tex., Gainesville.—The \$150,000 of 5 per cent. water-works purchase bonds voted January 10 are reported sold to the Thomas J. Bolger Company, Chicago, Ill.

Tex., Kountze.—Official: As soon as prepared \$100,000 of 5 per cent. 20-year district bonds voted January 14, 1911, will be offered for sale; denomination \$1000. Address John L. Little, County Judge.

Tex., Mount Vernon.—School bonds are reported offered for sale thus: \$1200 district 18, \$800 district 17, \$700 district 20 of Franklin county. G. E. Cowan is County Judge.

Tex., Port Lavaca.—\$44,000 of 5 per cent. courthouse building bonds are reported sold to the Great Southern Life Insurance Co. of Houston, Tex., at par and interest; dated October 15 last; denomination \$1000 each.

Tex., Quanah.—\$15,000 of 5 per cent. 20-40 optional school-building bonds, denomination \$1000, are reported sold to A. J. Hood & Co. of Detroit, Mich., at 100.165.

Tex., Miles.—Official: Report confirms that F. L. Fuller & Co. of Cleveland, O., purchased \$20,000 of 5 per cent. 20-40 water-works bonds.

Tex., Waxahachie.—The City Council, says a dispatch, has decided to call an election for \$30,000 of paving bonds and \$12,000 of school bonds.

Va., Amherst.—Official: January 14 Amherst county voted \$135,000 of public-road improvement bonds; denomination \$100 or some multiple thereof. W. E. Sandidge is clerk.

Va., Covington.—Reported that an election is to be held to vote on \$50,000 of electric-light-plant bonds.

Va., Pearisburg.—\$20,000 of 5 per cent. Giles county bridge construction bonds are reported sold to A. J. Hood & Co. of Detroit, Mich., at 100.05.

Va., Portsmouth.—Reported voted: \$600,000 of municipal water-works bonds. L. P. Slater is City Clerk.

Va., Richmond.—Reported it is contemplated to issue \$600,000 of high-school bonds.

Va., Suffolk.—A dispatch says that it is proposed to issue \$40,000 of 5 per cent. school-building bonds. The chairman of the finance committee of the City Council can probably give information.

Va., Wise.—C. A. Johnson, County Clerk, telegraphs the Manufacturers Record that the \$700,000 of 5 per cent. Wise county road bonds were sold January 24 to John L. Williams & Sons, bankers, Richmond, Va., at \$1,000 premium.

W. Va., Welch.—Official: \$35,000 of school-district bonds, 5 per cent. 30-year, dated January 1, 1911, denomination \$1000 each, have been sold to Sensenig & Mayer of Cincinnati, O. Bonds were voted November 8, and bids opened January 14.

W. Va., Elizabeth.—Official: Bids will be received until noon February 19 for \$40,000 of 5 per cent. Wirt county courthouse and jail bonds; I. P. Thorn is County Clerk at Elizabeth, Wirt county, West Virginia.

At Boston, Ga., bids will be received until March 1 for \$12,000 of 20-year school bonds. Further particulars will be found in the advertising columns.

At Greenwood, Miss., bids will be received until noon February 6 for \$60,000 of 5 per cent. 30-year Leflore county bridge bonds. Further particulars will be found in the advertising columns.

At Elizabeth, Wirt county, West Virginia, bids will be received until noon February 19 for \$40,000 of 5 per cent. courthouse and jail bonds. Further particulars will be found in the advertising columns.

At Sumter, S. C., bids will be received until noon March 7 for \$10,000 of 4½ per cent. 20-year Sumter county road-improvement bonds. Further particulars will be found in the advertising columns.

FINANCIAL NOTES.

The Bank of Lexington, Lexington, Miss., has amended its charter to increase capital from \$50,000 to \$100,000.

The First National Bank of Helena, Ark., will, it is reported, increase its capital stock from \$120,000 to \$200,000.

The Trust Company of Georgia, at Atlanta, Ga., has, it is reported, decided to increase its capital from \$500,000 to \$1,000,000.

The Advance Banking Co., Clayton, Ala., says a press report, has increased its capital from \$25,000 to \$50,000. G. A. Johnston is president.

The People's Bank of Greenville, S. C., it is reported, proposes to increase its capital from \$100,000 to \$200,000. W. Hammond is president.

The Bank of Manchester, at Manchester, Ga., is reported to have increased its capital from \$25,000 to \$50,000. Fuller E. Callaway is president.

The South Carolina State Bankers' Association will hold its annual meeting at the Pine Forest Inn, Summerville, S. C., April 18, 19 and 20.

The Chattanooga Savings Bank of Chattanooga, Tenn., has filed application to amend its charter, increasing the capital from \$100,000 to \$200,000.

The Knox County Bank & Trust Co. of Knoxville, Tenn., has, according to press dispatches, decided to increase its capital from \$75,000 to \$100,000.

The First National Bank of Dunn, at Dunn, N. C., it is reported, has decided to increase its capital from \$25,000 to \$40,000. P. S. Cooper is president.

The Lake Charles Loan & Trust Co., Ltd., of Lake Charles, La., according to press dispatches, has voted to increase its capital from \$50,000 to \$100,000.

Martin & Raine, bankers, incorporated, Memphis, Tenn., have, it is reported, decided to increase capital to \$100,000, with surplus of \$40,000. All is subscribed.

The Colonial Trust Co. and the Oklahoma State Bank, both at Tulsa, Okla., are reported to have consolidated under the name of the former institution with a paid-up capital of \$100,000.

The National Currency Association of Dallas, Tex., says a dispatch, has been organized by 14 national banks in Dallas and neighboring cities. R. A. Ferris of Dallas is president.

A telegram from Oklahoma City, Okla., says the Oklahoma City National Bank has been sold to H. L. Williams of Greenville, Tex., and Don Lacy and M. M. Bonner of Ardmore, Okla. The capital will be increased from \$100,000 to \$600,000.

The Cottage Grove Bank & Trust Co. and the Union Bank, both of Cottage Grove, Tenn., according to press dispatches, have consolidated under the name of the Cottage Grove Bank & Trust Co. with \$70,000 capital. J. C. Rainey is president.

The First State Bank, Gainesville, Tex., statement dated January 7, shows total resources, \$307,882.10, including loans and discounts, \$188,911.02; cash and sight exchange, \$108,313.59. The total capital is \$50,000, and net surplus and profits, \$6518.08. Deposits, \$251,265.02. It is signed by George C. Morris, cashier.

A condensed statement of 196 State banks in Louisiana at close of business December 28, 1910, shows total resources of \$119,512,283; demand loans, \$17,824,053; loans secured by mortgage, \$14,143,290; other loans and discounts, \$25,520,580; due from other banks and bankers, \$19,626,752; capital stock paid in, \$12,677,810; surplus, \$7,544,644; undivided profits, less expenses and taxes paid, \$2,451,276; due to other banks and bankers, \$12,285,591; individual savings deposits, \$23,334,461; time and demand certificates of deposit, \$5,517,188.

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